

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A)**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**SECOND YEAR INTERNSHIP DATA FOR THE YEAR 2021-2022**

<b>S NO</b>	<b>NAME AND ROLL NUMBER</b>	<b>PAGE NO</b>
1	Deepsikha Adidam-160120733002	8
2	Jahnavi Manoj-160120733003	10
3	Jahnavi Reddy Malreddy-160120733004	11
4	Jeevika Mekala-160120733005	12
5	Jyothi Sree P-160120733006	31
6	Lalasa Reddy Jogadinnemeeda-160120733007	14
7	Manisha T-160120733008	16
8	Meghana Ganapuram-160120733009	17
9	Nandini Nenavath-160120733010	18
10	Neha Krishna Karampuri-160120733011	19
11	Nikhitha Tubati-160120733012	20
12	Sai Praveena Karnati-160120733013	21
13	Satvika Basanamoni-160120733014	22
14	Shirisha Siddireddy-160120733015	23
15	Sowmika Alwal-160120733017	24
16	Vaishnavi Sirigiri-160120733020	25
17	Aadarsh Pokala-160120733021	26
18	Adarsh Kumar Akula-160120733022	27
19	Aman Rachala-160120733023	29
20	Ameenuddin Ahmed Mohd-160120733024	30
21	Bhanuteja Vittalapuram-160120733025	51
22	Bow Singh B-160120733026	52
23	Chetan Pande-160120733027	53
24	Dhanush B-160120733028	55
25	Dhruv Saxena-160120733029	56
26	Ganesh Nedunuri-160120733030	57
27	Gokul Chinthalapudi-160120733031	58
28	Gopal Matcha-160120733032	61
29	Likith Reddy Irigela-160120733033	63
30	Mahesh Kumar Kummari-160120733034	64
31	Pavan Harshit Ch-160120733035	65
32	Philip Godala-160120733036	66
33	Pranav Reddy Asireddy-160120733037	67
34	Pratham Reddy V-160120733038	69
35	Puneeth Batchu-160120733039	71
36	Raghu Buchala-160120733040	74
37	Ram Charan Reddy Thummala-160120733041	76
38	Sai Abhiram Alluri-160120733042	79

39	Sai Ganesh Mandala-160120733043	81
40	Sai Kishore Bandari-160120733044	82
41	Sai Murari G G G-160120733045	83
42	Sai Ruthvik Reddy Korem-160120733046	84
43	Sai Saketh Konjerla-160120733047	85
44	Sai Vishal Uppala-160120733048	87
45	Satvik Yadav Elitem-160120733049	88
46	Shahbaz Jahan M G-160120733050	89
47	Shaik Abdul Khader Al Amoudi-160120733051	90
48	Shyam Sundar Pobbothi-160120733052	91
49	Siddhardha Kattanguru-160120733053	92
50	Sree Harshith Vajinepalli-160120733054	93
51	Sumanth Geddami-160120733055	95
52	Tanish Rohil Gali-160120733056	109
53	Uday Rose-160120733057	97
54	Vamshi Krishna Bathula-160120733058	98
55	Vikram Mali-160120733059	99
56	Vishnu Sathwik Rebally-160120733060	100
57	Vinay Kumar-160120733181	492
58	Mayank Gujrathi-160120733301	102
59	Vadnala Nikita-160120733302	104
60	Chintala Sai Akshitha-160120733303	105
61	Pagidipala Rajavardhan-160120733304	106
62	Aleti Snigdha-160120733305	107
63	Boora Anusha-160120733306	108
64	Amulya Nandala-160120733063	111
65	Anjali Vanam-160120733064	112
66	Hamsitha Kotla-160120733069	113
67	Harshitha Reddy Mallu-160120733071	116
68	Niveditha Reddy Mandala-160120733074	117
69	Poojitha Pachava-160120733075	118
70	Roopika Ponnur-160120733077	119
71	Sreeni Tummuru-160120733083	120
72	Srimeghana Akella-160120733084	121
73	Srinidhi Challa-160120733085	122
74	Tejaswi Karri-160120733086	123
75	Vaasuki Achampeta-160120733087	124
76	Yahshaswitha S-160120733088	125
77	Abhinav J M S-160120733089	126
78	Abhinav Sandru-160120733090	127
79	Adityanarayana Rao Yerabati-160120733091	130
80	Akash Bathula-160120733092	131
81	Arunanjan Bandari-160120733093	132

82	Ashish Golla-160120733094	133
83	Bhanu Prakash N-160120733095	135
84	Bharath Chandra Nagunuri-160120733096	136
85	Chandra Bose Chiluka-160120733097	137
86	Dheeraj Nune A S-160120733098	138
87	Harshavardhan Reddy V S K-160120733099	147
88	Hemananda Reddy Kottakapu-160120733100	151
89	Jayesh Dhoot-160120733101	155
90	Mohd Asaduddin Amaan-160120733102	156
91	Nithish Rao Gottumukkula-160120733103	157
92	Phaneendra Koushik Ballamudi-160120733104	162
93	Pradyumna Balaji Akkaldevi-160120733105	164
94	Ragul G-160120733106	165
95	Sai Hemanth Sanganabhatla-160120733108	170
96	Sai Kumar Jampala-160120733109	171
97	Sankara Bharadwaj Rangavajjala-160120733110	172
98	Sathvik Bandaru-160120733111	173
99	Sharon Joseph Enduri-160120733112	176
100	Shiva Kumar Bandam-160120733113	177
101	Shiva Sai Balne-160120733114	178
102	Sravan Linga-160120733115	179
103	Sreevardhan Reddy Kasireddy-160120733116	182
104	Swaroop Patnaik-160120733117	183
105	Syed Md Kashan Naiyer-160120733118	186
106	Varshith Reddy Ravula-160120733119	187
107	Vikas Swagath Rapelly-160120733120	188
108	Maroju Nikhil-160120733307	193
109	Veldoj Saiteja-160120733308	194
110	Angoth Sridhar-160120733309	195
111	Aratla Yogitha-160120733310	196
112	Kamatam Akanksha-160120733311	197
113	Mudavath Swapna-160120733312	198
114	G. Alekhya - 160120733121	199
115	Asiya Anjum - 160120733122	201
116	D.Asritha-160120733123	203
117	Laya Chalamchyla-160120733124	204
118	Chandralekha - 160120733125	205
119	V. Jhahnavi - 160120733126	207
120	G. Kiranmani - 160120733127	209
121	Roshini Singh - 160120733129	211
122	Y Sai Keertana-160120733130	214
123	P. Veekshah - 160120733131	215
124	Sampriti Thummala-160120733132	217

125	Sanvi reddy-160120733133	218
126	Saphalya Peta - 160120733134	219
127	Shreya Koka - 160120733135	222
128	Shreya Sriram-160120733136	224
129	Srihitha-160120733137	225
130	Sunshine - 160120733138	226
131	Sunkari Varshika - 160120733140	228
132	Vineela Bellamkonda - 160120733141	229
133	Yashasvi - 160120733142	231
134	Maraju Aakash - 160120733143	233
135	Abhiram pendyala-160120733144	237
136	Achyuth reddy-160120733145	238
137	AKASH KASAM-160120733146	239
138	Aniketh reddy-160120733147	240
139	Bharath Varala - 160120733148	241
140	Somula Bala Chandra Shekhar - 160120733149	243
141	Kandula Dinesh-160120733150	245
142	Anirudh Vyas - 160120733151	246
143	Komal Adithya Reddy - 160120733152	248
144	Mohammad Sohail - 160120733154	250
145	Kasa Naga Sai Vivek - 160120733155	252
146	B Naren reddy-160120733156	254
147	Are Nithin - 160120733158	255
148	J. Nithin - 160120733159	257
149	R. Nitin - 160120733160	258
150	Prahas-160120733161	260
151	Raghav Gupta-160120733162	261
152	Rahul Yela-160120733163	263
153	Rayan Ahmed-160120733164	265
154	Regella Sai Karthik-160120733165	267
155	S.Sai Pranay-160120733166	269
156	MAREPALLY SAI TEJA-160120733167	270
157	Sriram Chagarlamudi-160120733170	271
158	SRITEJA G-160120733171	272
159	Sujith Kumar Velpula-160120733172	273
160	Sushanth Reddy T-160120733173	275
161	JAMPANI TEJA SAI CHENNA MALLESWAR RAO-160120733175	277
162	Sama Uday Kumar Reddy-160120733176	278
163	Ch Venkata Koti Reddy-160120733177	279
164	Vijay Vardhan Reddy - 160120733178	280
165	Vijaya Venkata Sai - 160120733179	282
166	Virat Karthikeya Koramati - 160120733180	284
167	Patcha Kiran Deep - 160120733183	286

168	Bommena Ashok - 160120733314	287
169	Gadham Srinivas - 160120733315	308
170	Mohammed Usama Ahmed -160120733316	328
171	V. Shirisha - 160120733317	329
172	R. Nihal Kumar - 160120733318	331
173	G. Mohan Krishna Yadav - 160120733319	332
174	Afifa Fatima-160120748001	333
175	Archana Bondapalli-160120748002	334
176	Harika Dasari-160120748003	335
177	Mitali Singh-160120748004	336
178	Mokshitha Mandadi-160120748005	338
179	Parnashri Nandam-160120748006	339
180	Pranava Gayathri Aavuti-160120748007	340
181	Prerana J-160120748008	341
182	Rishitha Reddy Gudipati-160120748009	342
183	Sannihitha Navuluru-160120748010	343
184	Sathvika Karipa-160120748011	344
185	Sathvika Papishetti-160120748012	345
186	Sheeba Manukonda-160120748013	346
187	Shresta Gupta Vandanapu-160120748014	350
188	Snigdha Mohana Addepalli-160120748015	351
189	Sreeja Paka-160120748016	352
190	Sreya Reddy Addula-160120748017	353
191	Sri Sanjana Berugu-160120748018	354
192	Sruthika Bachu-160120748019	355
193	Tejaswi Koppiseti-160120748020	356
194	Varshitha Minumula-160120748021	357
195	Abhinav Tej Naik Mude Chowhan-160120748022	358
196	Aditya Koushik Desai-160120748023	359
197	Balveer Kain-160120748024	360
198	Chandra Shekar Reddy P-160120748025	361
199	Chetan Reddy Velagala Siva-160120748026	362
200	Gowtham Sai M-160120748028	363
201	Harshit Chokda-160120748029	364
202	Kasinath Sangem-160120748030	365
203	Kowshik Ranga-160120748031	366
204	Kundan Sai Kotta-160120748032	368
205	Likhith Sai Valluru-160120748033	369
206	Madireddy Sai Siddarth Reddy-160120748034	371
207	Manav Muramshetty-160120748035	372
208	Mohammed Abdur Rahman-160120748036	373
209	Mohd Shoeb Ahmed-160120748037	374
210	Mukesh Patel-160120748038	375

211	Naga Lalith Ryakam-160120748039	376
212	Nagaraju Bajjuri-160120748040	377
213	Nagesh Reddy Musku-160120748041	379
214	Nihar Tokachichu-160120748042	381
215	Nikhil Mudumba-160120748043	382
216	Noor Mohammed Syed-160120748044	383
217	Prashanth Reddy Simhadri-160120748045	384
218	Ruthvik Athi-160120748046	385
219	Sai Amith Guntha-160120748047	386
220	Sai Nikhil Samineni-160120748048	387
221	Sai Varshith Shivarampally-160120748050	388
222	Sai Venkata Nitin Bachu-160120748051	389
223	Saketh Botte-160120748052	390
224	Sanketh Kumar Kistappagari-160120748053	391
225	Shiva Krishna Peechara-160120748054	392
226	Shivaganesh Shanigaram-160120748055	393
227	Srijay Simha Reddy C-160120748056	394
228	Vivek Gandasiri-160120748057	395
229	Yashwanth Reddy K-160120748059	396
230	Yeswanth Kondabolu-160120748060	397
231	Udutha Manohar-160120748301	398
232	Gamasu Rangha Vardhan-160120748302	399
233	Mohammad Shireen-160120748303	416
234	Chira Sriya-160120748304	417
235	Bheem Shashivardhan-160120748305	419
236	Mareddy Shiva Reddy-160120748306	420
237	Anam Fathima-160120749001	424
238	Anita Chennuru-160120749002	425
239	Anjali N-160120749003	426
240	Chandrika Mekala-160120749004	427
241	Hamsini Duttaluri-160120749005	428
242	Laxmi Priya Neela-160120749006	429
243	Manasvi K-160120749008	430
244	Nithya Sai M-160120749009	431
245	Pranathi Reddy Kubagiri-160120749010	432
246	Sai Lakshmi Priya Kothacheruvu-160120749011	433
247	Sai Pravallika Gumma-160120749012	434
248	Shriya Bandi-160120749014	435
249	Snigdha Talakoti-160120749015	436
250	Sreshta Reddy Basi Reddy-160120749016	437
251	Sri Meghana Karri-160120749017	438
252	Srikhyati Boppana-160120749018	439
253	Tanya Kolanupaka-160120749019	440

254	Thrisha Kakarla-160120749020	441
255	Vybhavi Bukka-160120749021	442
256	Abhinav Sai Danuguri-160120749022	443
257	Adithya Gururaj-160120749023	444
258	Ashish Chandra M-160120749024	445
259	Bhanu Prasad Paitar-160120749025	446
260	Chinnaiahgari Venkata Viswasreddy Mettupalle-160120749026	447
261	Chinni Krishna Gundaboina-160120749027	448
262	Dheeraj Venu K-160120749029	449
263	Hima Charan Gangula-160120749030	450
264	Irshad Mohammed-160120749031	451
265	Khaja Osman Fareed Shiraazi-160120749032	452
266	Krishna Rishi Kolli-160120749033	454
267	Mahesh Reddy Javvaji-160120749034	455
268	Nivas Reddy Velmula-160120749035	456
269	Palla Mohammad-160120749036	457
270	Prashanth Chowdary Upputuri-160120749037	458
271	Pratham Reddy Enugu-160120749038	459
272	Rajesh Kuturu-160120749039	460
273	Rama Krishna Reddy Madireddy-160120749040	461
274	Sahakar Malleboina-160120749042	462
275	Sai Charan Reddy Vootkuri-160120749043	463
276	Sai Lohith Peddi-160120749044	464
277	Sai Manoj Alladi-160120749045	465
278	Sai Medhansh T-160120749046	466
279	Sai Sathvik Reddy Bontu-160120749047	469
280	Saisuraj Jaligapu-160120749048	471
281	Saketh Reddy Mule-160120749049	473
282	Sangi Reddy Seelam-160120749050	474
283	Shiva Kiran Koninty-160120749051	475
284	Siddharth Balaji P N-160120749052	476
285	Sri Sathvik Koundinya Kalluri-160120749053	479
286	Srinivas Kommineni-160120749054	481
287	Srinivasa Rao Mocharla-160120749055	482
288	Tanish Kavali-160120749056	483
289	Venkat Vikas Reddy D-160120749057	484
290	Vibhavari Sharma Naravarjhula-160120749058	485
291	Vishwanth Barma-160120749059	486
292	Vivek Gopari-160120749060	487
293	Enugula Rajendar-160120749301	488
294	Kashetty Tejashwini-160120749303	489
295	Pentam Venkatesh-160120749304	490
296	Karkam Manisha-160120749305	491

# C E R T I F I C A T E

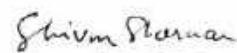
## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**DEEPSIKHA ADIDAM**

This is to certify that the above mentioned candidate has successfully completed his/her training in **Cyber Security** from 5<sup>th</sup> November to 5<sup>th</sup> December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



**Shivam Sharma**  
(VP - Human Resources)



Student UIN : 2002672

Certificate no. : RA1713672



# CERTIFICATE

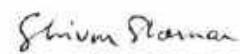
## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **DEEPSIKHA ADIDAM** ▶

This is to certify that the above mentioned candidate has successfully completed **Cyber Security** live projects from Artifintel in association with Skillvertex from 5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022

During this internship he/she showed diligence, consistency & determination.



**Shivam Sharma**  
(VP - Human Resources)

# CERTIFICATE

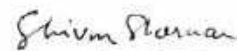
## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**JAHNAVI MANOJ**

This is to certify that the above mentioned candidate has successfully completed his/her training in **Cyber Security** from 5<sup>th</sup> November to 5<sup>th</sup> December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



**Shivam Sharma**  
(VP - Human Resources)



Student UIN : 2002675

Certificate no. : RA1713675

# C E R T I F I C A T E

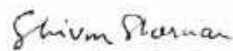
## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**M.JAHNAVI REDDY**

This is to certify that the above mentioned candidate has successfully completed his/her training in **Cyber Security** from 5<sup>th</sup> November to 5<sup>th</sup> December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



**Shivam Sharma**  
(VP - Human Resources)



Student UIN : 2002698

Certificate no. : RA1713698

# C E R T I F I C A T E

## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **JEEVIKA MEKALA** ▶

This is to certify that the above mentioned candidate has successfully completed **Cyber Security** live projects from Artifintel in association with Skillvertex from 5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022

During this internship he/she showed diligence, consistency & determination.

*Shivam Sharma*

**Shivam Sharma**  
(VP - Human Resources)

# C E R T I F I C A T E

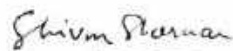
## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**JEEVIKA MEKALA**

This is to certify that the above mentioned candidate has successfully completed his/her training in **Cyber Security** from 5<sup>th</sup> November to 5<sup>th</sup> December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



**Shivam Sharma**  
(VP - Human Resources)



Student UIN : 2002673

Certificate no. : RA1713673

# C E R T I F I C A T E

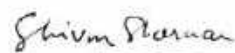
## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **LALASA REDDY JOGADINNERMEDIA** ▶

This is to certify that the above mentioned candidate has successfully completed his/her training in **Cyber Security** from 5<sup>th</sup> November to 5<sup>th</sup> December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma  
(VP - Human Resources)



Student UIN : 2002669

Certificate no. : RA1713669

# CERTIFICATE

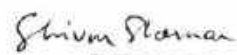
## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **LALASA REDDY JOGADINNERMEEDIA** ▶

This is to certify that the above mentioned candidate has successfully completed **Cyber Security** live projects from Artifintel in association with Skillvertex from 5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022

During this internship he/she showed diligence, consistency & determination.



**Shivam Sharma**  
(VP - Human Resources)

*Swecha*

## Certificate of Internship

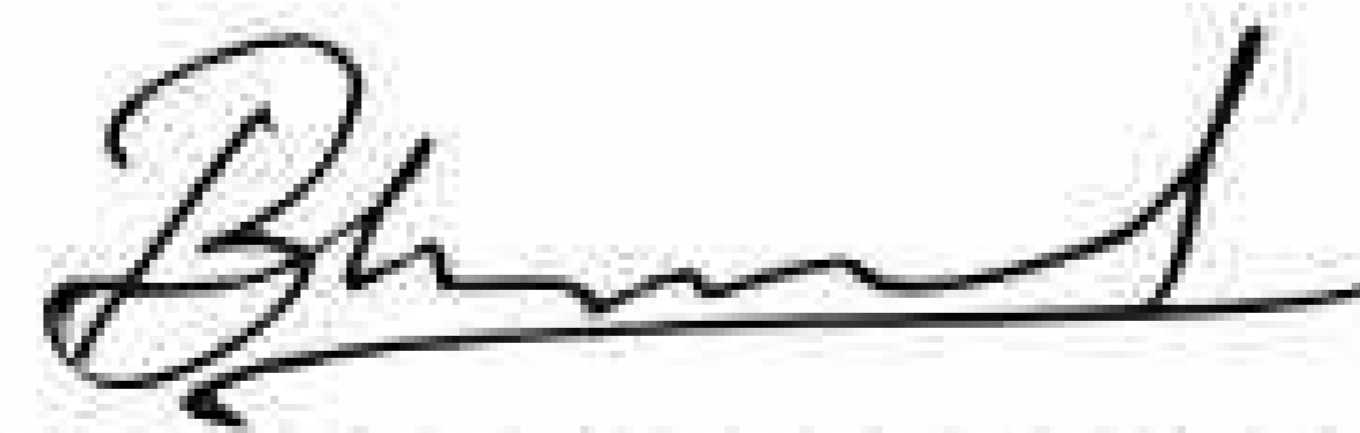
This is to certify that

**T Manisha**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



*Swecha*

## Certificate of Internship

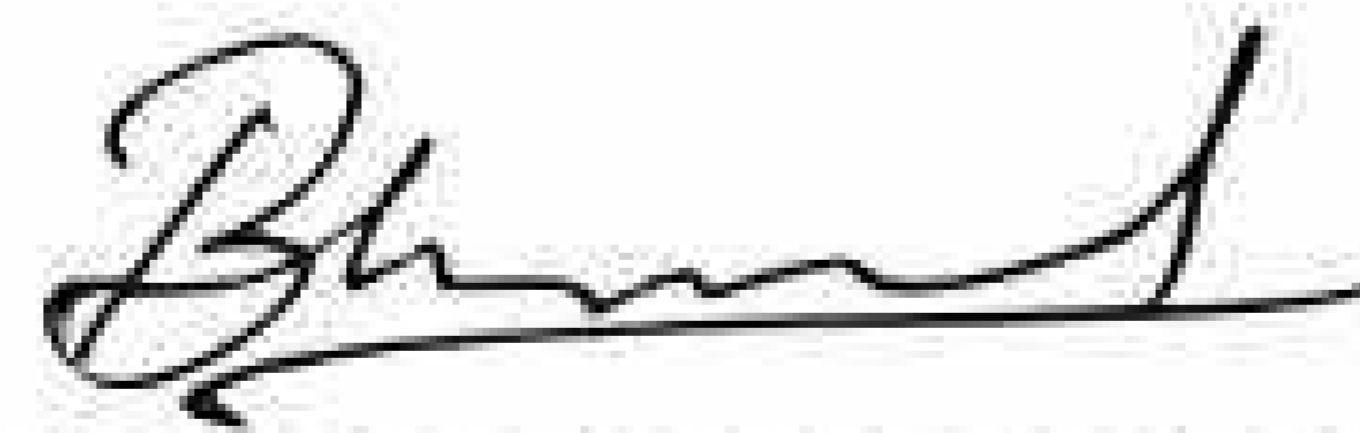
This is to certify that

**Meghana Ganapuram**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

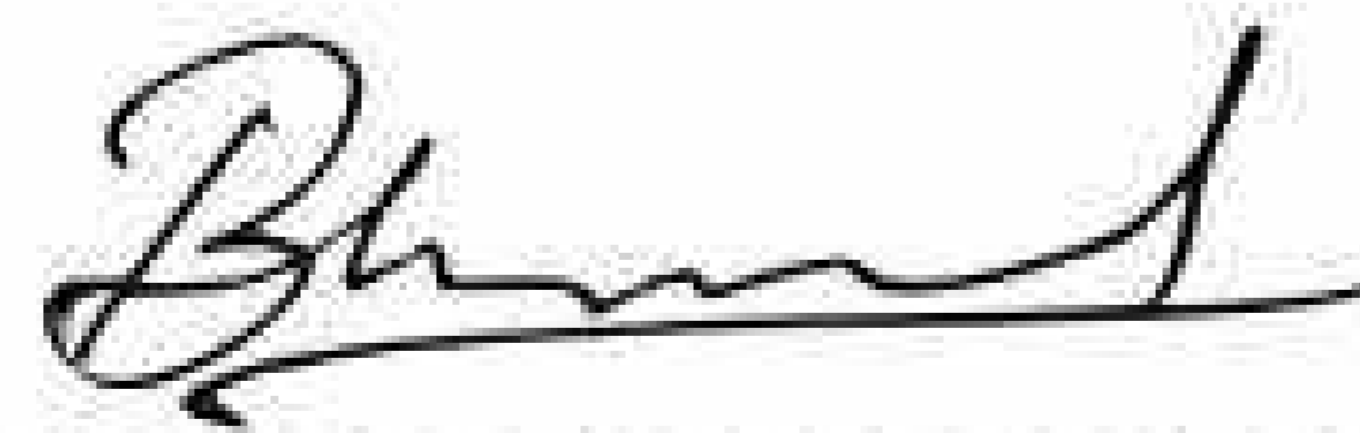
This is to certify that

**Nandini Nenavath Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

This is to certify that

**Neha Krishna Karampuri**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

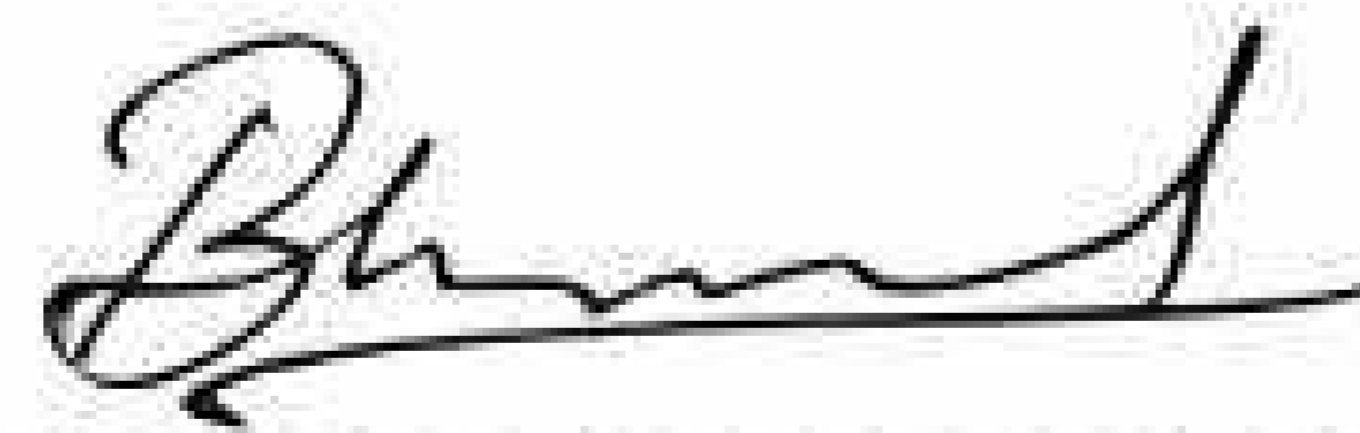
This is to certify that

**Nikhitha Tubati**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

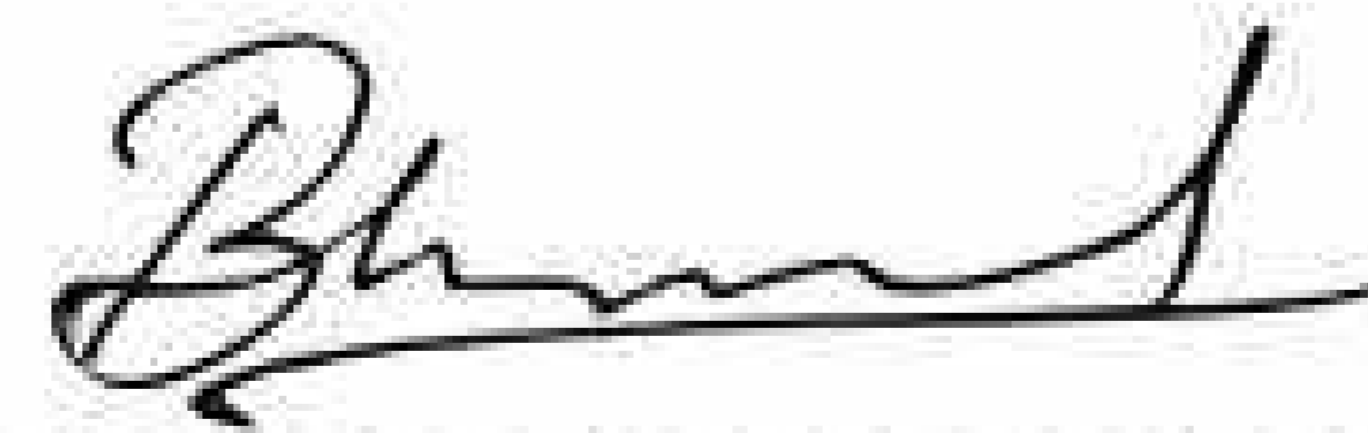
This is to certify that

sai praveena karnati Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



EXECUTIVE COMMITTEE MEMBER  
SWECHA

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

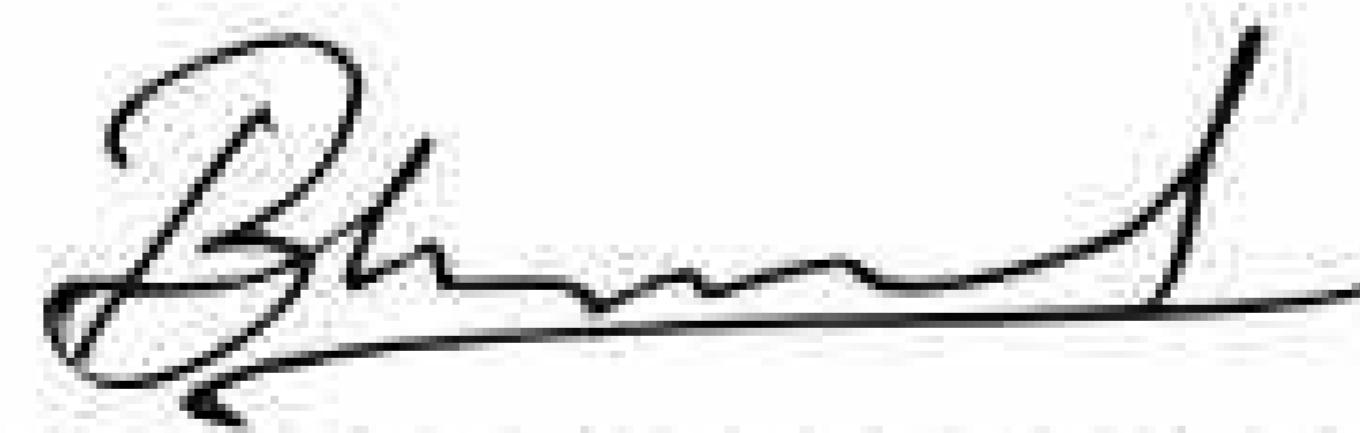
This is to certify that

**Satvika Basanamoni**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

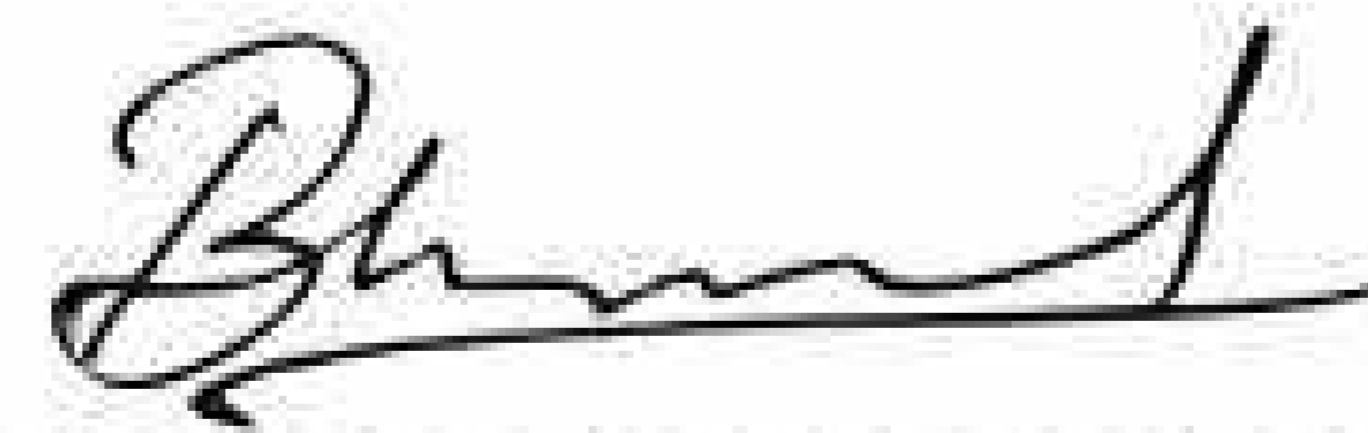
This is to certify that

**Siddireddy Shirisha**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS55S24040068

To  
ALWAL SOWMIKA  
GANGASTHANZ,GOKUL RESIDENCY,NIZAMABAD  
MADHAPUR VILLAGE ,MAKLOOR MANDAL  
NIZAMABAD  
TELANGANA - 503003  
PH. NO :9492718166



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**ALWAL SOWMIKA**

for successfully completing the course

**Programming in C++**

with a consolidated score of **78** %



Online Assignments	23.88/25	Programming Exam	14.25/25	Proctored Exam	40/50
--------------------	----------	------------------	----------	----------------	-------

Total number of candidates certified in this course: 336

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Sep 2021  
(8 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur







4 Courses

**Introduction to Java**

**Introduction to Object-Oriented Programming with Java**

**Object-Oriented Hierarchies in Java**

**Java Class Library**



Jan 22, 2022

## Sirigiri Vaishnavi

has successfully completed the online, non-credit Specialization

# Core Java

In this Core Java specialization, learners gained the knowledge and skills needed to become an object-oriented programmer using the Java language. In the four courses of this specialization, learners mastered the Java programming language and the packages that constitute its rich set of core libraries. Through many hands-on exercises, learners developed their own Java-based applications using beginner to advanced Java functions.

Evan Bergman

Noel J. Bergman

Noel J. Bergman

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:

[coursera.org/verify/specialization/RKP63SFBM25](https://coursera.org/verify/specialization/RKP63SFBM25)

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S23633563

To  
POKALA AADARSH  
1-18-60/11/5, MES COLONY, VENKATAPURAM  
ALWAL., HYDERABAD, TELANGANA  
HYDERABAD  
TELANGANA - 500015  
PH. NO : 7989285342



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**POKALA AADARSH**

for successfully completing the course

**Programming in Java**

with a consolidated score of **85** %



Online Assignments	24.5/25	Programming Exam	25/25	Proctored Exam	35.25/50
--------------------	---------	------------------	-------	----------------	----------

Total number of candidates certified in this course: 2632

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



# C E R T I F I C A T E

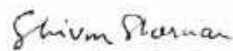
## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**AKULA ADARSH KUMAR**

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5<sup>th</sup> November to 5<sup>th</sup> December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma  
(VP - Human Resources)



Student UIN : 2002562

Certificate no. : RA1713562

# CERTIFICATE

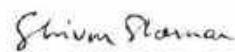
## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **AKULA ADARSH KUMAR** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022**

During this internship he/she showed diligence, consistency & determination.



**Shivam Sharma**  
(VP - Human Resources)

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S23632302

To  
AMAN RACHALA  
1-8-702/21/2 A BLOCK PADMA COLONY  
NEW NALLAKUNTA HYDERABAD 500044  
HYDERABAD  
TELANGANA - 500044  
PH. NO :8331066655



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**AMAN RACHALA**

for successfully completing the course

**Programming in Java**

with a consolidated score of **79** %



Online Assignments	23.85/25	Programming Exam	25/25	Proctored Exam	30.5/50
--------------------	----------	------------------	-------	----------------	---------

Total number of candidates certified in this course: **2649**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



*Swecha*

## Certificate of Internship

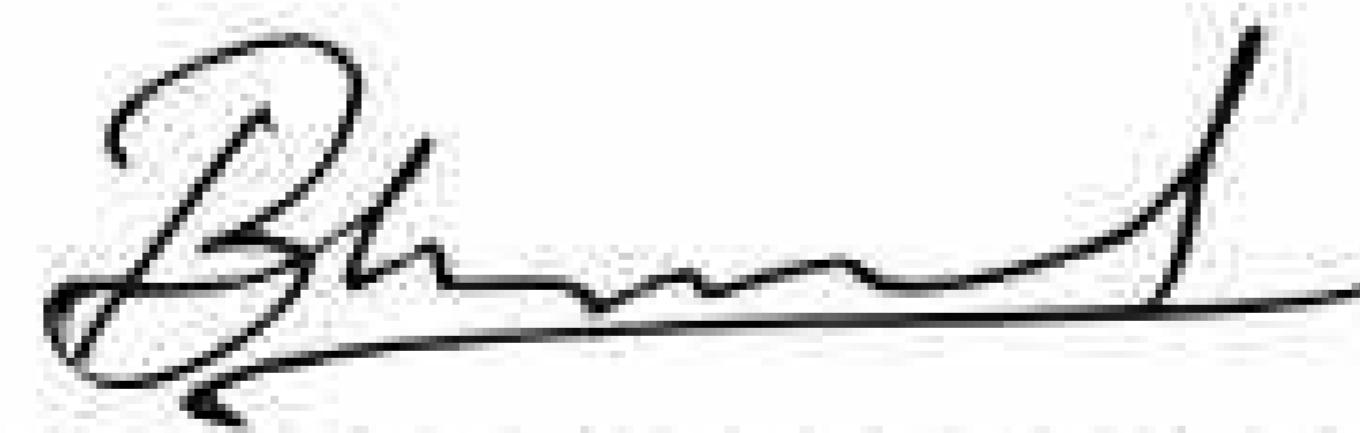
This is to certify that

**Mohd Ameenuddin Ahmed**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

# Information Systems Development Course

## Integrating Business, IT and IS Competencies

João Alvaro Carvalho, Rui Dinis Sousa, Jorge Oliveira Sá  
Information Systems Department, Algoritmi Centre  
University of Minho  
Guimarães, Portugal  
(jac, rds, jos) @ dsi.uminho.pt

*Abstract* — Information systems development (ISD) is a capstone course in the Information Systems and Technology undergraduate program at School of Engineering, University of Minho, Portugal. ISD is viewed as an organizational change project that aims at improving an organization through the adoption of IT applications.

The course is designed following a project led approach. The project involves describing an organization as a system, describing its information handling activities and proposing a set of IT applications that could be adopted and used.

Students are guided by an ISD methodology that demands the application of previous developed competencies in areas such as: organization theory, accounting, marketing, information systems fundamentals, data bases, software engineering, computer networks and several other IT courses. Together with the ISD course, students are also taking courses on organizational behavior and data-warehousing.

Students are organized into large teams of 10 to 12 members. Several roles are distributed among team members: e.g., team leader, analyst, document officer, technology officer, methodologist, development tools specialist, IT specialist.

Students are suggested a fictional organization in a specific business area. Ideally students should deal with a real organization. As the course is having around 100 students enrolled this is not possible. However it is common that each project team finds an organization in the proposed business area where they go and have actual contact with an organization.

The main outputs of the project include: project plan; organization description including – purpose, environment, main activities, business ontology, main performance indicators; general information systems description using UML; requirements for an IT application; IT architecture. One of the most important steps of the project is to decide on what IT to suggest to the organization. The decision should take into consideration the capability of current IT, the specifics of the business area and its current practices.

Besides the reports, each team makes two public presentations. The first one is to present the organization description making sure business is clearly understood. The final one is to present the solution in terms of information systems and IT architecture. These presentations are attended by industry guests that focus

their attention on the students' communication skills from the perspective of a manager.

The evaluation of students' performance is based on: reports corresponding to the outputs mentioned above; public presentations; weekly assessments of the teams' progress. The final mark attributed to each team (a numerical value from 0 to 20, where above 10 is a pass) can be re-distributed among team members, by themselves, in order to account for different levels of commitment or effort within the team. Several other rules are set in order to promote professional behavior.

*Keywords* – IS professionals; capstone course; ISD process; engIS methodology; project led approach; large teams.

### I. INTRODUCTION – EDUCATION OF IS PROFESSIONALS

The evolution of computers and computing led to the emergence of several different professions related to the design, implementation and deployment of computer and computing artifacts. The Computing Curricula 2005 [1] distinguishes among such five different professional profiles: computer engineering, computer science, software engineering, information technology and information systems. This article addresses the last of these – information systems (IS).

The education of IS professionals has been much debated (early discussions can be found in [2], [3], [4] or [5]). Besides several individual contributions, it is interesting to focus on collaborative efforts to produce a set of recommendations for IS programs both at undergraduate and graduate levels. Such efforts led to reports such as IS 1995 [6], IS 2002 [7] and MSIS 2006 [8]. A new proposal for the IS undergraduate curriculum is being discussed and should become public early this year (2010) [9].

Based on these recommendations (or, at least, somewhat related to them), many IS programs can be found all over the world. At the AIS site, a list of such programs can be consulted (<http://apps.aisnet.org/isprograms>).

This article addresses a course on information systems development taught at the 3rd (last) year of an undergraduate degree program on information systems at School of Engineering, University of Minho, Portugal. The learning outcomes of this course include:

- Describe and explain the information systems development (ISD) process”;
- Participate in an ISD project carried out in a laboratory setting, performing most activities of the process;
- Describe and explain the information systems development (ISD) process;
- Distinguish between ISD and software development, and between ISD and other organization intervention activities;
- Compare the proposed methodology for ISD with alternative methodologies from literature or practice.

In order to achieve these outcomes, the course was designed according to a project-based approach where students are faced with a fictional organization in whose information system they have to intervene.

## II. INFORMATION SYSTEMS DEVELOPMENT

The information systems development (ISD) is a key capability of IS professionals – improving organizations through the adoption of information technology (IT). ISD corresponds to a combination of several of the IS high-level capabilities as described in the collaborative document sponsored by ACM and AIS [9] that is leading to a proposal for an undergraduate curriculum for information systems. Those capabilities include: improving organizational processes, exploiting opportunities created by technology innovations, understanding and addressing information requirements, identifying and evaluating solution and sourcing alternatives.

ISD should not be confused with software development. Software development aims at producing an IT product. It involves setting the requirements, designing, implementing, testing and deploying the IT product. ISD has a broader scope as it aims at improving an organization through the adoption and use of information technology (IT) applications. An ISD methodology suggested to students at University of Minho – engIS – encompasses the following main activities:

- A – understand the organization: the aim of this activity is to produce a systemic model of the organization; the model should address: purpose (a statement of what the organization is supposed to do), environment, activities (main organization activities; a structure of activities such as Porter’s value chain is suggested), manipulated objects (inputs and outputs of the organization’ activities) and organs (people and machines that execute the activities; the model also addresses the organization’s ontology (main business concepts and their associations) and a basic set of performance indicators (it is suggested that the performance indicators are organized according to the balanced score card structure); the outcome of this activity is a report with a description of the organization from a systemic perspective;
- B – understand the organization’s information system: based on the systemic description of the organization developed in activity A, a description of the

organization’s information systems is produced; this description addresses the organizational activities that deal with information; the description is represented with UML – unified modeling language;

- C – define changes to be made to the organization’s information system: the organization’s information system is reviewed and changes are proposed; ideas for how to use IT applications are discussed; requirements for new IT applications are defined;
- D – obtain IT products to be used in the organization: the purpose of this activity is to obtain the applications whose requirements have been defined in activity C; four different strategies can be used to obtain the IT applications: (i) a software development process carried out by an in house group; (ii) to buy an off-the-shelf product from an adequate supplier; (iii) to hire an external software house to develop the application according to the defined requirements; (iv) to access the application on a service basis from an adequate service supplier;
- E – execute the proposed changes: this activity includes: to implement the changes planned in activity C; prepare the organization for new ways of working; installation and configuration of the IT applications.

To get involved in an ISD project and be able to participate in the activities described above, a large set of professional skills and competencies is necessary. These skills and competencies build upon knowledge related to:

- Organizations and markets – general understanding of organizations and markets;
- Operations and management of organizations – understanding of the major organizational activities both at operational and managerial levels;
- Computers and information technology – understanding the way computers operate and how they can be linked in communication networks; understand how computers and other devices can be connected in order to enable information collection, storage, representation; distinguish among different types of IT applications that can be used to execute/support work in organizations (e.g., data processing, management information, decision support, software); understand the role of platforms that enable IT applications (e.g., databases; workflow management systems, data warehousing);
- Information technology in organizations – understanding the roles played by IT; IT and business opportunities and business models; IT and strategic planning; IT in managerial activities; IT in operations; understand how the success of IT in organizations can be assessed;
- Socio-technical organizational change – understanding the problems of organizational change that involve both people and technology;



- ISD methods – understand ISD methods; use methods, techniques and tools; plan an ISD intervention combining appropriate ISD methods, techniques and tools; assess an ISD process;
- Software development – building software products to execute/support work in organizations; applying methods, techniques and tools for software development; build IT applications of different types, using the platforms mentioned in the previous point;
- Project planning and management – planning a project and controlling its execution;
- Systems thinking and problem solving – thinking about complex active objects; representing systemic models of such objects; using those models to solve problems (either on building IT artifacts or planning changes in organizations).

Besides science and technology skills and competencies, ISD is also demanding in what concerns soft skills, namely:

- Inter-personal communication – listening to others; explaining own ideas; making presentations, writing reports;
- Inter-personal relationships – collaborate with others; team motivation; leadership;
- Professionalism issues – ethics; assess the impact of the work being carried out on people, organizations or society; reflexive attitude towards professional knowledge and action; permanent pursuit of good practices.

It should be recognized that it is not easy to train young IS professionals capable of exhibiting the combined competencies just described. This corresponds to the ability of integrating different subjects and developing a comprehensive perspective of IT in organizations. And besides the intrinsic difficulty of mastering the different subjects in an integrated way, the absence of live experience in an organization of the students adds further difficulty.

### III. THE ISD COURSE AT UNIVERSITY OF MINHO

The portfolio of undergraduate programs in computing at the University of Minho offers several education programs in the area of computing, corresponding to several of the profiles presented in the Computing Curricula 2005 report [1]. Among them, the Information Systems and Technology (IST) program focus on the education of IS professionals. In its curriculum, the IST program includes courses that address the areas mentioned above.

The Information Systems Development course is a capstone course. It is taught in the first semester of the 3rd (last) year. It builds upon several other competencies developed along the program. The learning outcomes of this course include:

- Describe and explain the information systems development (ISD) process;

- Participate in a ISD project carried out in a laboratory setting, performing most activities of the process;
- Distinguish between ISD and software development, and between ISD and other organization intervention activities;
- Compare the proposed methodology for ISD with alternative methodologies from literature or practice.

In what concerns the contents, the course covers:

- The information systems development process: conceptual framework; ISD process and other intervention activities; ISD and software development;
- The engIS methodology;
- Social and political aspects of the ISD;
- Professional competencies for the ISD process;
- engIS and other ISD methodologies;
- Representation of information systems: UML and other representation packages; dealing with complexity in information systems representation;
- Techniques for the ISD inquiry process.

Considering the learning outcomes and the competencies and skills that are aimed, the course has been designed following a project-based approach. A project running along the whole semester is a central activity in the course. Each student is expected to dedicate 10 hours per week to the project. The course corresponds to 10 credits (ECTS – European Credit Transfer System) which is twice the common weight of a course.

### IV. THE PROJECT WITHIN THE ISD COURSE

A major feature of the course is the project. The project attempts to simulate an organizational situation that a consultancy team will address in order to improve through the adoption of information technology. Ideally, students would be confronted with a real organizational situation. However, considering the size of the class this has been ruled out. The class size typically ranges from 80 to 110. With such size, too many simultaneous cases would be necessary. So, each year a particular business is proposed to students. A notary, a hospital, a university or a rent-a-car are some of the business examples that have already been used. In order to bring “reality” to the simulation, students are encouraged to contact a real organization in the business area that has been chosen. In these real organizations, students have the possibility of experiencing some of the aspects and difficulties of the inquiry process associated to the ISD.

The project doesn’t cover the whole ISD process. Only activities A, B and C of the engIS process model. However, students are requested to consider in their work the plan for all the activities. Activities D and E are included in the plan but not actually executed.

Students are organized in teams of 10 to 12. The relatively large size of the teams leads to a situation where students have

to interrelate to with a broader set of colleagues and to carry out work involving a high number of interrelations. Team size is also related with work distribution and coordination. Teams are asked to assign roles to different members. Among the suggested roles the following are the most important:

- Team leader – general work coordination; team motivation; record (diary) keeping;
- Project manager – planning a project and controlling its execution;
- Document officer – keeper of models and other documents concerning the project;
- Methodologist – specialist on the methods and techniques being used; should assure that all members of the team are well aware of the procedures to be carried out;
- Development tools specialist – should try in advance the tools to be used;
- System analyst – carries out general work related with the inquiry process;
- Designer – participates in planning the future of the organization or in the design of computing artifacts;
- Database administrator – responsible for organization’s databases strategy including design and implementation if necessary

Project results are presented in reports and presentations. Three main reports are produced: (i) a project plan, produced after the second week; (ii) an interim report delivered on the sixth week and (iii) a final report. Presentations to the faculty, colleagues and guests from industry are made just after the delivery of the reports.

Autonomy and responsibility are key elements in the project. Teams are granted with a high level of autonomy in the sense they can plan their work, they can select methods, techniques and tools. A final mark is attributed to the work produced based on an assessment of the reports and presentations. Regular weekly meeting with faculty are also an input that contributes to assess the way work is being carried out. Based on team’s self assessment, the mark is distributed among team members, reflecting their involvement in the project work.

## V. REPORTS OF STUDENTS’ EXPERIENCE IN THE ISD COURSE

Looking through the student testimonials in the final project reports, it is undeniable the importance they recognize to the ISD course in their education when taken under the already explained project-led learning approach (quotations below have been translated from their original in Portuguese in the reports from the past two school years, 2008/09 and 2009/10):

- “The experience we got from this project turned out to be very valuable giving us a clear picture of what may be indeed an information systems development process in reality.” (Team 2, 2008/09);

- “I feel quite enriched with this project that got me ready in several ways for market realities.” (Pedro, Team 3, 2008/09);
- “All team members consider that this project was crucial for our education and will be very valuable for our professional future.” (Team 4, 2009/10);
- “Having been a project quite enriching at several levels, I will highlight the fact that was the closest I came across to market realities so far in my studies.” (Margarida, Team 2, 2009/10).

This is not to say that students didn’t experience any difficulties such as managing the project complexity and dealing with a large team size in a working context as close as possible to reality:

- “The entire project, due to its complexity, presented some obstacles. First, how to manage a large team since having to coordinate the work of twelve members in a team was a brand new experience. Second, how to organize several reports, what to include, how to justify, how to develop them. Finally, how to deliver two public presentations, if not a major obstacle, at least an important milestone to prepare for and overcome successfully.” (Team 1, 2009/10);
- “I would highlight the inexperience in working in such large teams, the difficulty in assigning tasks and reaching team consensus while having to deal with so many perspectives.” (Alexandre, Team 3, 2009/10);
- “While working in the project, the team faced difficulties in several areas, namely, in understanding the organization. This is in part explained by the lack of know-how regarding organizational realities (...). Other difficulties came up while designing the IT architecture (...). It should be stressed that quite some effort has been put to manage the project according to what was initially planned.” (Team 2, 2008/09);
- “From the moment we really understood which type of organization we had in hands, we started describing the information system using UML while doing a market research on the software packages that could be used in our organization to develop the IT architecture. This was clearly one of the most laborious and difficult stages in the project since none of us had great experience in this type of tasks. Moreover we were getting little or inconclusive information from organizations we were getting in touch with.” (Team 4, 2008/09);
- “There were manifest difficulties in understanding and describing the information system because we were used to model a software system, not an information system.” (Team 5, 2008/09);
- “We had great difficulties in understanding the organization. It was clear our lack of know-how on how an organization such as a rent-a-car was working,” (Team 4, 2009/10).

In spite of all the above mentioned difficulties, and also because of them, students ended up giving testimonials about important learning outcomes that they have reached:

- “We have developed a set of skills in the analysis, evaluation and solving of information systems problems that we were clearly missing.” (Team 1, 2009/10);
- “This project has allowed me to get the knowledge on how to develop information systems while applying knowledge from other courses.” (Fernando, Team 6, 2009/10);
- “This has been a surprising project since we have been applying what we have learned in other courses over the past years.” (João, Team 1, 2009/10);
- “This project allowed us to be involved in a situation requiring the use of methods, techniques and tools while using knowledge from several other courses in the economics and business areas.” (Alexandre, Team 2, 2008/09);
- “In practical terms, I was able to increase my knowledge. Although I have learned many things in other courses, I was never able to put them into practice. I should stress that I developed also some skills on how to organize work, work in teams, manage time, understand and solve organizational problems.” (Margarida, Team 2, 2009/10);
- “Working in a team with twelve people developed my ability to manage relationships, led me to take on new working responsibilities and carry out work in an autonomous way. I think I am bet prepared to enter the job market.” (Rui, Team 2, 2009/10);
- “The project with a large team was quite a challenge in work and relationships management getting us ready for the job market. We were able to apply knowledge already acquired in other courses as well as new knowledge from the course itself, in a practical context, leading to a knowledge consolidation that broadens our working options in the market.” (Miguel, 2009/10);
- “I have been able to acquire new knowledge that will be fundamental for my professional future. In addition I was able to expand knowledge I acquired in past courses such as Information Systems Fundamentals, Software Methodologies and Process, or Computers Networks.” (Tânia, Team 4, 2009/10);
- “We had come to the conclusion of the importance of having an approach for information systems development as the one suggested by engIS since we were able to develop an information system to improve the work in the organization.” (Team 3, 2008/09).

Summing up, having dealt with the difficulties inherent to information systems development projects, the students make an overall positive evaluation of the ISD course:

- “Working in this project made us able to intervene in organizations to develop their information systems taking advantage of information technologies in order to improve organizational performance.”(Team 3, 2008/09);
- “To summarize, it should be highlighted that this project has turned out quite valuable allowing us to deal with concepts and techniques in the information systems arena that will be of great importance in our professional future. Our team makes an overall positive evaluation of the project.” (Team 4, 2008/09);
- “I will emphasize the experience acquired by working in big teams in a close contact with organizational realities while still in an academic environment.” (Bruno, Team 3, 2009/10);
- “This project was essential for acquiring new competencies as well as knowledge that will be needed in the future, either academic or professional. Many difficulties were experienced but once they were overcome, we got substantial gains in technical abilities and knowledge that will be valuable in future works.” (Liliana, Team 4, 2008/09);
- “ISD was a course that got me specially motivated allowing a healthy competition among teams in a simulation of what we will have to face in a professional environment. Public presentations in a formal setting having the presence of industry guests contributed decisively for that simulation.” (João, Team 5, 2009/10);
- “As it was a project quite “real”, that gave me a big motivation to enroll in the course and participate in the project in an extremely active way.” (Sérgio, Team 5. 2009/10);
- “It was a marathon, although very tempting, the intervention of a team in an organization to improve its performance using information technologies. It was a project that led us to use collaborative tools, to engage in team debates and apply new knowledge in information systems development.” (Guilherme, Team 6, 2009/10);
- “I should stress the importance and high sense of responsibility that we take upon during the semester. It was not an academic project without substance, but one that had to be deeply worked to show real application possibilities.”(Diogo, Team 1, 2009/10);
- “The project was quite rewarding and enriching allowing the consolidation of past acquired knowledge in a simulation of what could be a future working situation to get me better prepared for the job market. This project helped me also to develop team working abilities since I had to deal with very different people unknown so far to me” (Raquel, Team 2, 2009/10).

## V. CONCLUSION

The ISD project started to be used in the early 1990s. Since then it has evolved, incorporating lessons learned from previous editions and contributions from talks and seminars on project led education, a teaching approach fostered in the School of Engineering at University of Minho.

Licenciatura in Information Systems and Technology – the IS program where the ISD course is taught – suffered in recent years major revisions related to the Bologna process. This led to some changes in the scope of the ISD course and its project. One of the main limitations that is being recognized is that students do not have time to get involved in the implementation of the IT products they suggest in order to improve the organizational situation (students execute only activities A, B and C of the methodological approach they follow, cf. section II). Therefore, adjustments are being prepared to allow students to focus more on developing implementation skills.

The experience obtained so far with the ISD project supports the conclusion of the important role that project led education can play in the education of IS professionals. The project is particularly important when recognizing that IS professionals are supposed to integrated knowledge and competencies from areas such as business, management and information technology and that this integration should happen in a problem solving environment that involves a high degree of human interaction.

## VI. REFERENCES

- [1] ACM, AIS, and IEEE-CS, "Computing Curricula 2005: The Overview Report," 2005.
- [2] P. H. Cheney, D. P. Hale, and G. M. Kasper, "Knowledge, skills and abilities of information systems professionals: past, present, and future," *Information and Management*, vol. 19, pp. 237-247, 1990.
- [3] H. J. Watson, D. Young, S. Miranda, B. Robichaux, and R. Seerley, "Requisite skills for new MIS hires," *Data Base*, vol. 21, pp. 20-29, 1990.
- [4] M. B. Khan and S. Kukalis, "MIS professionals: education and performance," *Information and Management*, vol. 19, pp. 249-255, 1990.
- [5] D. M. S. Lee, E. M. Trauth, and D. Farwell, "Critical skills and knowledge requirements of IS professionals: a joint academic/industry investigation," *MIS Quarterly*, vol. 19, pp. 313-340, 1995.
- [6] J. D. Couger, G. B. Davis, D. G. Dologite, D. L. Feinstein, J. T. Gorgone, A. M. Jenkins, G. M. Kasper, J. C. Little, J. Herbert E. Longenecker, and J. S. Valacich, "IS'95: Guideline for Undergraduate IS Curriculum," *MIS Quarterly*, vol. 19, pp. 341-359, 1995.
- [7] J. T. Gorgone, G. B. Davis, J. S. Valacich, H. Topi, D. L. Feinstein, and J. Herbert E. Longenecker, "IS 2002 Model Curriculum and Guidelines for Undergraduate Degree Programs in Information Systems," Association for Computing Machinery (ACM), Association for Information Systems (AIS), Association of Information Technology Professionals (AITP) 2002.
- [8] J. T. Gorgone, P. Gray, E. A. Stohr, J. S. Valacich, and R. T. Wigand, "MSIS 2006: model curriculum and guidelines for graduate degree programs in information systems," *Communications of the Association for Information Systems*, vol. 17, 2006.
- [9] ACM and AIS, "IS Curriculum Wiki," 2009.



Information Systems Department  
Engineering School  
University of Minho, Portugal

## Information Systems Development Course

Integrating Business, IT and IS Competencies

*João Álvaro Carvalho, Rui Dinis Sousa (presenter) and Jorge  
Oliveira Sá  
University of Minho, Portugal*

Transforming Engineering Education:  
Creating Interdisciplinary Skills for Complex Global Environments,  
Dublin, Ireland, 6-9 April 2010

*Information Systems Development Course: Integrating Business, IT and IS Competencies*

## Agenda

- I. Education of IS Professionals
- II. Information Systems Development (ISD)
- III. ISD course at University of Minho, Portugal
- IV. ISD Project
- V. Student Testimonials
- VI. Conclusions



IS Education	ISD	ISD Course	ISD Project	Testimonials	Conclusions
--------------	-----	------------	-------------	--------------	-------------

## Professional Profiles

- Computer Engineering
- Computer Science
- Software Engineering
- Information Technology
- **Information Systems**

Computing Curricula, 2005



IS Education

ISD

ISD Course

ISD Project

Testimonials

Conclusions

## Information Systems Development

- Part of the Information Systems and Technology 3-year undergraduate program at School of Engineering
- Project-based approach
- Organizational change project to improve an organization through IT applications adoption
- Methodological framework to provide guidance: engIS
- Fictional organization in a specific business area that usually involves close contacts with real organizations in the same area



IS Education

ISD

ISD Course

ISD Project

Testimonials

Conclusions

## Learning Outcomes

- Describe and explain the information systems development (ISD) process;
- Participate in an ISD project carried out in a laboratory setting, performing most activities of the process;
- Describe and explain the information systems development (ISD) process;
- Distinguish between ISD and software development, and between ISD and other organization intervention activities;
- Compare the proposed methodology for ISD with alternative methodologies from literature or practice.



IS Education

ISD

ISD Course

ISD Project

Testimonials

Conclusions

## ISD vs. Software Development

- Software Development
  - setting the requirements, designing, implementing, testing and deploying Information Technology (IT) applications
- Information Systems Development
  - improving an organization through the adoption and use of information technology (IT) applications

A broader scope



IS Education

ISD

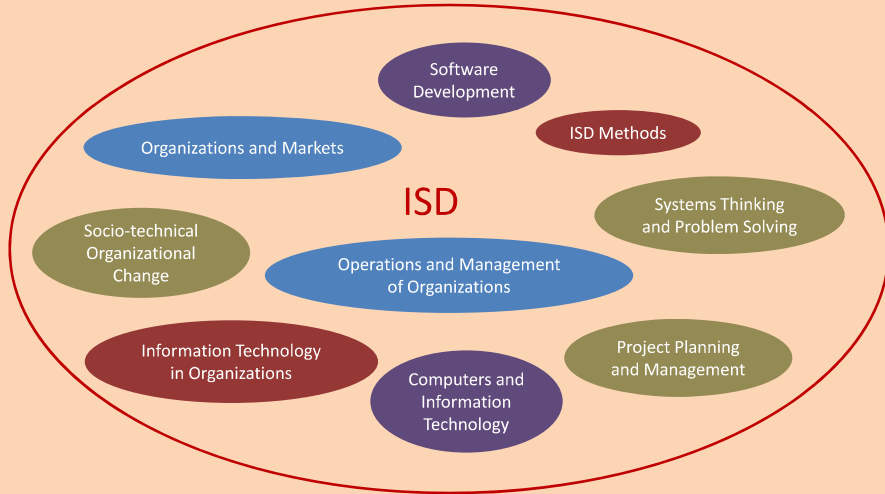
ISD Course

ISD Project

Testimonials

Conclusions

# Integrating Competencies



IS Education	<b>ISD</b>	ISD Course	ISD Project	Testimonials	Conclusions
--------------	------------	------------	-------------	--------------	-------------

# Soft Skills



IS Education	<b>ISD</b>	ISD Course	ISD Project	Testimonials	Conclusions
--------------	------------	------------	-------------	--------------	-------------



# Capstone Course

- Last year, 1st semester
- Demanding the application of previous developed competencies, e.g.
  - Organizational theory
  - Accounting
  - Marketing
  - Information Systems Fundamentals
  - Databases
  - Software Engineering
  - Computer Networks



IS Education	ISD	<b>ISD Course</b>	ISD Project	Testimonials	Conclusions
--------------	-----	-------------------	-------------	--------------	-------------

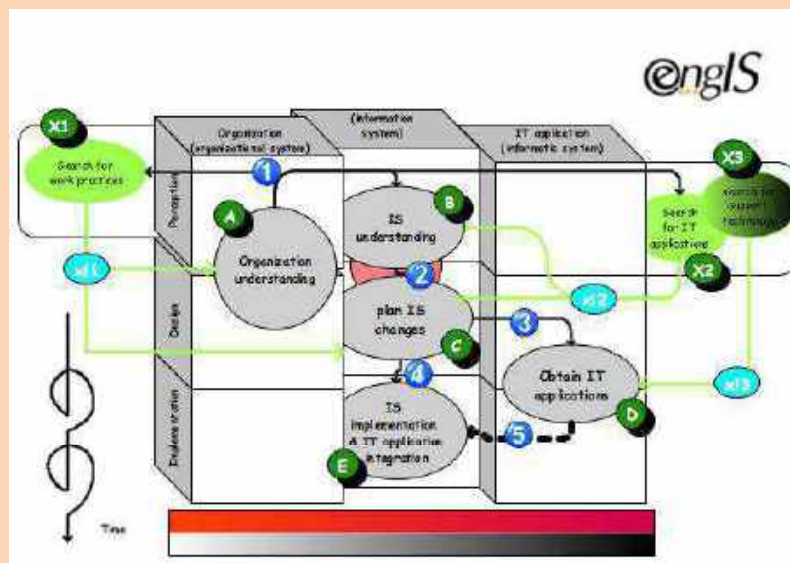
Scientific Area	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
Maths and Quantitative Methods	Fundamentals of Discrete Mathematics (4)	Fundamentals of Linear Algebra (4)	Topics in Mathematical Analysis (5)	Operational Research (5) Topic in Statistics (5)	Simulation (6)	
	Introduction to Economics (3)	Principles of Organisation and Management (5)	Accounting (3)	Marketing (5)	Organizational Behaviour (5) Logistics and Production Management (5)	Financial Management (5)
Information Systems	Information Systems and Technologies (6)	Databases (6)	Fundamentals of Information Systems (5)		Management Support Technologies (5)	Information Services (5) Integration of Integrated Systems (10)
	Information Technology		Software Process and Methodologies (6)	Software Development (10)	Knowledge Based Systems (5)	
Information Technology	Foundations of Computer Programming (5)	Programming Concepts (5)	Web Programming (5)	Distributed Systems (5)		
	Computing Systems (4)	Operating Systems (5)	Computer Networks (5)			



IS Education	ISD	<b>ISD Course</b>	ISD Project	Testimonials	Conclusions
--------------	-----	-------------------	-------------	--------------	-------------

# ISD Methodology: engIS

- A. understand the organization
- B. understand the organization's information system
- C. define changes to be made to the organization's information system
- D. obtain IT products to be used in the organization
- E. execute the proposed changes



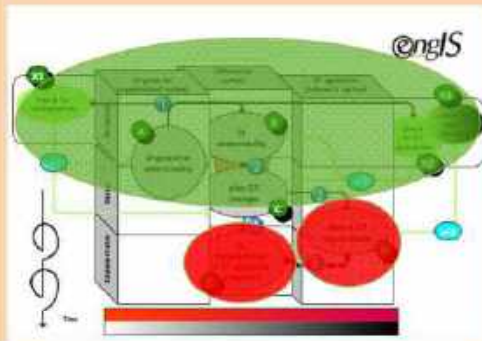
## Team Organization

- Around 100 students enrolled
- Large teams (10 to 12 students)
- Roles:
  - Team Leader
  - Project Manager
  - Document Officer
  - Systems Analyst
  - Methodologist
  - Development Tools Specialist
  - Designer
  - IT Specialist
  - ...



IS Education ISD ISD Course **ISD Project** Testimonials Conclusions

## Project scope



- Organization understanding
- IS understanding
- Plan IS changes
- Included in the project plan but not actually executed
  - Obtain IT applications
  - IS implementation & IT application integration



IS Education ISD ISD Course **ISD Project** Testimonials Conclusions

## Project Main Outputs

- Organization description
- Information systems description
- IT application requirements
- IT architecture
- Public presentations
  - Initial: Organization description
  - Final: Information Systems and Technology solutions



IS Education

ISD

ISD Course

ISD Project

Testimonials

Conclusions

## Project evaluation

- Weekly assessment of team's progress
- Periodic written reports (five)
- Public presentations (two)
  - External evaluation (industry guests):
    - Particular emphasis on communicative skills, demonstration of organization understanding and business value of proposed solutions, ...
- YouTube video
- Redistribution of team final mark among team members



IS Education

ISD

ISD Course

ISD Project

Testimonials

Conclusions

## Highlights: sense of reality

- “The experience we got from this project turned out to be very valuable giving us a **clear picture** of what may be indeed an **information systems development process in reality.**” (Team 2, 2008/09);
- “Having been a project quite enriching at several levels, I will highlight the fact that was the **closest** I came **across to market realities** so far in my studies.” (Margarida, Team 2, 2009/10).



IS Education | ISD | ISD Course | ISD Project | **Testimonials** | Conclusions

## Challenges: large teams, reports and presentations

- “The entire project, due to its **complexity**, presented some obstacles. First, **how to manage a large team** since having to coordinate the work of twelve members in a team was a brand new experience. Second, **how to organize several reports**, what to include, how to justify, how to develop them. Finally, **how to deliver two public presentations**, if not a major obstacle, at least an important milestone to prepare for and overcome successfully.” (Team 1, 2009/10);



IS Education | ISD | ISD Course | ISD Project | **Testimonials** | Conclusions

## Challenges: understanding organizations

- “While working in the project, the team faced difficulties in several areas, namely, in **understanding the organization**. This is in part explained by the **lack of know-how regarding organizational realities** (...). Other difficulties came up while **designing the IT architecture** (...). It should be stressed that quite some effort has been put to **manage the project according to what was initially planned.**” (Team 2, 2008/09);



IS Education	ISD	ISD Course	ISD Project	<b>Testimonials</b>	Conclusions
--------------	-----	------------	-------------	---------------------	-------------

## Challenges: understanding IS, team working

- “There were manifest difficulties in **understanding and describing the information system** because we were used to model a software system, not an information system.” (Team 5, 2008/09);
- “I would highlight the **inexperience in working in such large teams**, the difficulty in **assigning tasks** and **reaching team consensus** while having to deal with so many perspectives.” (Alexandre, Team 3, 2009/10);



IS Education	ISD	ISD Course	ISD Project	<b>Testimonials</b>	Conclusions
--------------	-----	------------	-------------	---------------------	-------------

## Outcomes: integrated competencies

- “This project has allowed me to get the knowledge on how to develop information systems **while applying knowledge from other courses.**” (Fernando, Team 6, 2009/10);
- “This has been a **surprising** project since **we have been applying what we have learned in other courses** over the past years.” (João, Team 1, 2009/10);



IS Education | ISD | ISD Course | ISD Project | **Testimonials** | Conclusions

## Outcomes: integrated competencies

- “This project allowed us to be involved in a situation requiring the use of methods, techniques and tools while **using knowledge from several other courses in the economics and business areas.**” (Alexandre, Team 2, 2008/09);
- “Although I have **learned** many things **in other courses**, I was **never able to put them into practice.**” (Margarida, Team 2, 2009/10);



IS Education | ISD | ISD Course | ISD Project | **Testimonials** | Conclusions

## Outcomes: developed soft skills

- “I should stress that I developed also some skills on how to **organize work, work in teams, manage time, understand and solve organizational problems.**” (Margarida, Team 2, 2009/10);
- “Working in a team with twelve people developed my ability to **manage relationships**, led me to take on new working responsibilities and **carry out work in an autonomous way**. I think I am bet prepared to enter the job market.” (Rui, Team 2, 2009/10);



IS Education	ISD	ISD Course	ISD Project	Testimonials	Conclusions
--------------	-----	------------	-------------	--------------	-------------

## Outcomes: team working

- “I will emphasize the experience acquired by **working in big teams in a close contact with organizational realities** while still in an academic environment.” (Bruno, Team 3, 2009/10);
- “This project helped me also to **develop team working abilities** since I had to deal with very different people unknown so far to me” (Raquel, Team 2, 2009/10).



IS Education	ISD	ISD Course	ISD Project	Testimonials	Conclusions
--------------	-----	------------	-------------	--------------	-------------



## Developed competencies

- “Working in this project made us **able to intervene in organizations** to develop their information systems **taking advantage of information technologies** in order to improve organizational performance.”(Team 3, 2008/09);
- “To summarize, it should be highlighted that this project has turned out quite valuable **allowing us to deal with concepts and techniques in the information systems arena** that will be of great importance in our professional future. Our team makes an overall positive evaluation of the project.” (Team 4, 2008/09);



IS Education | ISD | ISD Course | ISD Project | **Testimonials** | Conclusions

## Developed competencies

- “It was a project that led us **to use collaborative tools, to engage in team debates** and **apply new knowledge in information systems development.**” (Guilherme, Team 6, 2009/10);
- “This project was essential for **acquiring new competencies** as well as knowledge that will be needed in the future, either academic or professional. Many difficulties were experienced but once they were overcome, we got substantial **gains in technical abilities and knowledge** that will be valuable in future works.” (Liliana, Team 4, 2008/09);



IS Education | ISD | ISD Course | ISD Project | **Testimonials** | Conclusions

## Conclusions

- The importance of project led approach in the education of IS professionals
  - To allow for the integration of competencies from different domains, namely, business and information technology
  - To allow for the development of soft skills in problem solving environments, namely, how to manage time, how to organize work with and from multiple sources, how to manage conflicts and reach consensus.



IS Education

ISD

ISD Course

ISD Project

Testimonials

Conclusions

## Conclusions Cont'd

- The importance of project led approach in the education of IS professionals **in cooperation with industry**
  - To allow for the development of communicative skills and argumentation skills on how to show the value for the business of the proposed solution



IS Education

ISD

ISD Course

ISD Project

Testimonials

Conclusions

*Swecha*

## Certificate of Internship

This is to certify that

**BHANUTEJA VITTALAPURAM**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

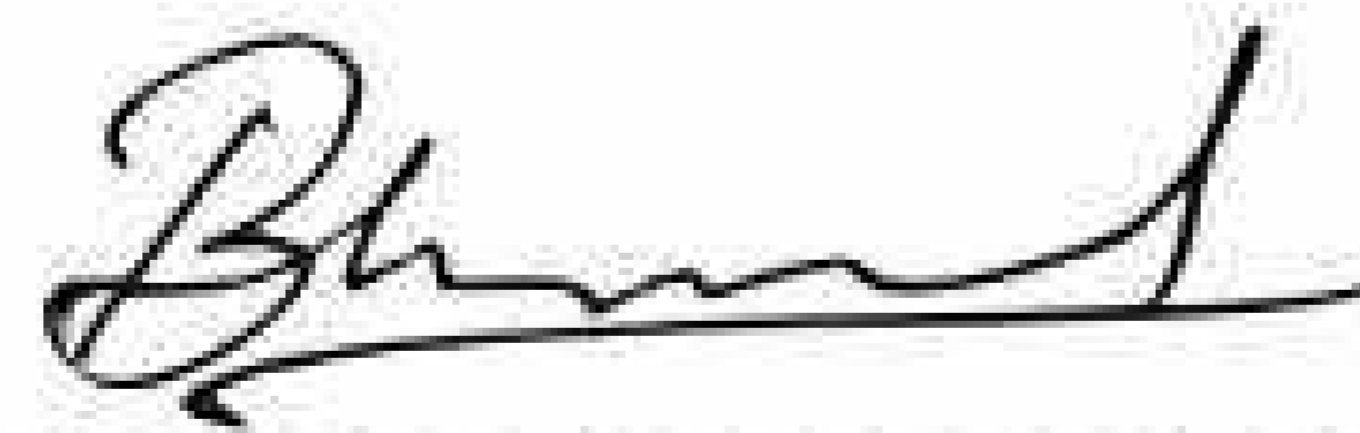
This is to certify that

**BOWSINGH B**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

# C E R T I F I C A T E

## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **CHETAN PANDE** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022**

During this internship he/she showed diligence, consistency & determination.



**Shivam Sharma**  
(VP - Human Resources)

# C E R T I F I C A T E

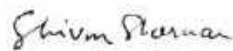
## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**CHETAN PANDE**

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5<sup>th</sup> November to 5<sup>th</sup> December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma  
(VP - Human Resources)



Student UIN : 2002525

Certificate no. : RA1713525

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S23633802

To  
B DHANUSH  
FLAT 401 4TH FLOOR PRUDHVI APARTMENTS  
2-2-24 AZIZ BAGH DD COLONY NEAR OU  
HYDERABAD  
TELANGANA - 500013  
PH. NO :8978554085



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**B DHANUSH**

for successfully completing the course

**Programming in Java**

with a consolidated score of **75** %



Online Assignments	23.69/25	Programming Exam	25/25	Proctored Exam	25.92/50
--------------------	----------	------------------	-------	----------------	----------

Total number of candidates certified in this course: **2649**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S23633926

To  
DHRUV SAXENA  
7-1-277/93/5 APHB NO 372/C LIGH  
SR NAGAR, NEAR BK GUDA PARK  
HYDERABAD  
TELANGANA - 500038  
PH. NO :8978383634



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**DHRUV SAXENA**

for successfully completing the course

**Programming in Java**

with a consolidated score of **80** %



Online Assignments	24.63/25	Programming Exam	25/25	Proctored Exam	30/50
--------------------	----------	------------------	-------	----------------	-------

Total number of candidates certified in this course: 2632

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur





# C E R T I F I C A T E

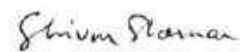
## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **NEDUNURI GANESH** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022**

During this internship he/she showed diligence, consistency & determination.



**Shivam Sharma**  
(VP - Human Resources)



# CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Kokapet ( Village), Gandipet, Hyderabad, Telangana-500075. www.cbit.ac.in



COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

43  
years

## CERTIFICATE OF PARTICIPATION

This is to certify that

*Gokul Chinthalapudi*

has actively participated in the virtual event

"CBIT Hacktoberfest Hackathon 2021" held on 29-30th October, 2021

Organized by



Presented by



DigitalOcean



appwrite

intel



deepsources

In Association with



Dr. P. Ravinder Reddy  
Principal, CBIT

Dr. Y. Ramadevi  
CSE HOD, CBIT

Mr. R. Srikanth  
Incharge, COSC

# C E R T I F I C A T E

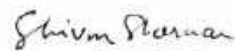
## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**CH GOKUL**

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5<sup>th</sup> November to 5<sup>th</sup> December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma  
(VP - Human Resources)



Student UIN : 2002533

Certificate no. : RA1713533

# C E R T I F I C A T E

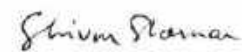
## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **CH GOKUL** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022**

During this internship he/she showed diligence, consistency & determination.



**Shivam Sharma**  
(VP - Human Resources)

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13633258

To  
GOPAL MATCHA  
G7, SURYA CLASSIC, PLOT NUMBER 27 & 34  
PRAGATHI NAGAR  
HYDERABAD  
TELANGANA - 500090  
PH. NO :9848039729



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



GOPAL MATCHA

This certificate is awarded to

**GOPAL MATCHA**

for successfully completing the course

**Programming in Java**

with a consolidated score of **82** %



Online Assignments	24.28/25	Programming Exam	25/25	Proctored Exam	33/50
--------------------	----------	------------------	-------	----------------	-------

Total number of candidates certified in this course: 2632

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



# CERTIFICATE

## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **GOPAL MATCHA** ▶

This is to certify that the above mentioned candidate has successfully completed **Cyber Security** live projects from Artifintel in association with Skillvertex from 5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022

During this internship he/she showed diligence, consistency & determination.

*Shivam Sharma*

**Shivam Sharma**  
(VP - Human Resources)

*Swecha*

## Certificate of Internship

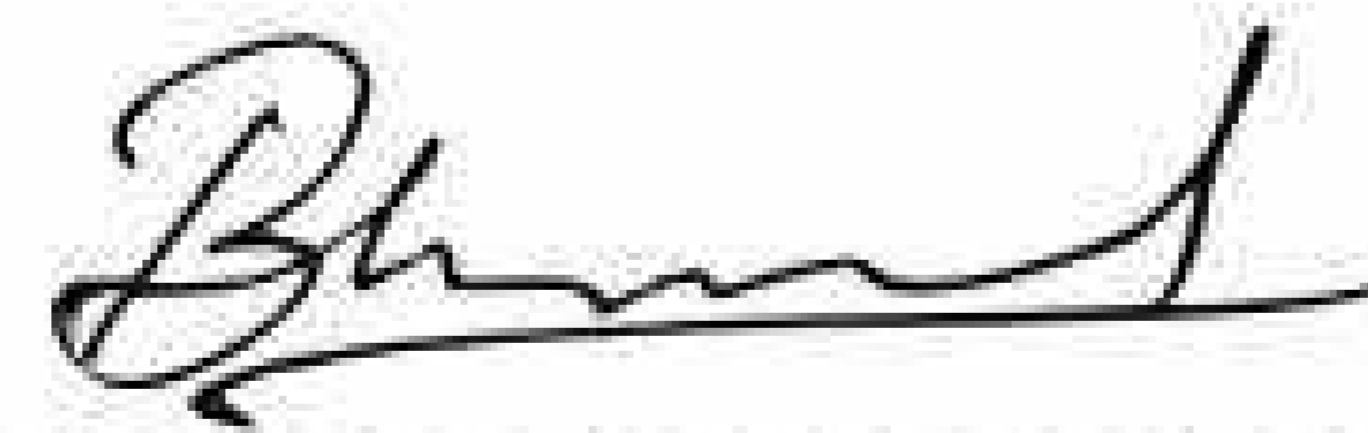
This is to certify that

**Likith Reddy Irigela Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

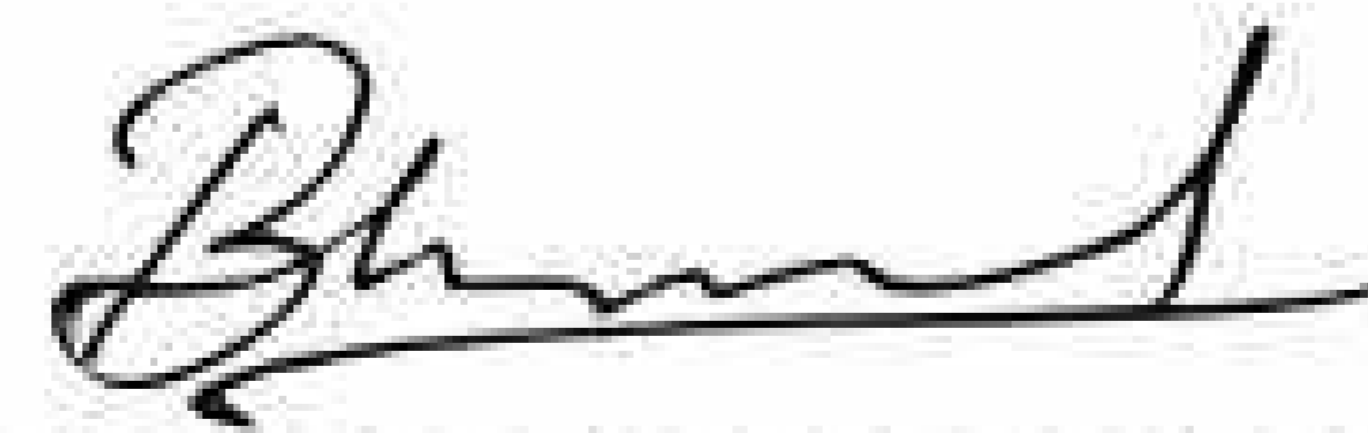
This is to certify that

**Mahesh Kumar Kummari**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

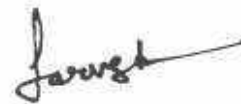


# Certificate of Training

**Ch Pavan Harshit**

from CBIT has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

We wish Ch all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2021-11-21

Certificate no. : 5E4B6D37-62D7-227D-D29B-B6B9BAFFE4A1

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)

# CERTIFICATE

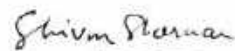
## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**PHILIP GODALA**

This is to certify that the above mentioned candidate has successfully completed his/her training in Artificial Intelligence from 5<sup>th</sup> November to 5<sup>th</sup> December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma  
(VP - Human Resources)



Student UIN : 2002934

Certificate no. : RA1713934

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13630246

To  
PRANAV REDDY ASIREDDY  
9-76/23 STREET NO 1,SV NAGAR,NAGARAM(V)  
KEESARA(M),MEDCHAL DIST  
HYDERABAD  
TELANGANA - 500083  
PH. NO :6305569703



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**PRANAV REDDY ASIREDDY**

for successfully completing the course

**Programming in Java**



with a consolidated score of **84** %

Online Assignments	24.63/25	Programming Exam	25/25	Proctored Exam	34.5/50
--------------------	----------	------------------	-------	----------------	---------

Total number of candidates certified in this course: 2632

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



# CERTIFICATE

## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **PRANAV REDDY ASIREDDY** ▶

This is to certify that the above mentioned candidate has successfully completed **Cyber Security** live projects from Artifintel in association with Skillvertex from 5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022

During this internship he/she showed diligence, consistency & determination.

*Shivam Sharma*

**Shivam Sharma**  
(VP - Human Resources)

# CERTIFICATE

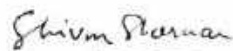
## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**PRATHAM REDDY V**

This is to certify that the above mentioned candidate has successfully completed his/her training in **Cyber Security** from 5<sup>th</sup> November to 5<sup>th</sup> December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



**Shivam Sharma**  
(VP - Human Resources)



Student UIN : 2002670

Certificate no. : RA1713670

# CERTIFICATE

## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **PRATHAM REDDY V** ▶

This is to certify that the above mentioned candidate has successfully completed **Cyber Security** live projects from Artifintel in association with Skillvertex from 5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022

During this internship he/she showed diligence, consistency & determination.

*Shivam Sharma*

**Shivam Sharma**  
(VP - Human Resources)



# CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Kokapet ( Village), Gandipet, Hyderabad, Telangana-500075. www.cbit.ac.in



COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

43  
years

## CERTIFICATE OF PARTICIPATION

This is to certify that

*Puneeth Batchu*

has actively participated in the virtual event

"CBIT Hacktoberfest Hackathon 2021" held on 29-30th October, 2021

Organized by



Presented by



In Association with



Dr. P. Ravinder Reddy  
Principal, CBIT

Dr. Y. Ramadevi  
CSE HOD, CBIT

Mr. R. Srikanth  
Incharge, CO SC

# CERTIFICATE

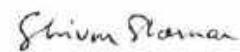
## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **PUNEETH BATCHU** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022**

During this internship he/she showed diligence, consistency & determination.



**Shivam Sharma**  
(VP - Human Resources)



# C E R T I F I C A T E

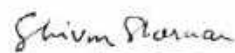
## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**PUNEETH BATCHU**

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5<sup>th</sup> November to 5<sup>th</sup> December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



**Shivam Sharma**  
(VP - Human Resources)



Student UIN : 2002535

Certificate no. : RA1713535

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS55S23583080

To  
BUCHALA RAGHU  
H-NO:7-167,CHAITANYA NAGAR ROAD NO 6,  
MIRYALAGUDA,NALGONDA(DIST),TELANGANA  
MIRYALAGUDA  
TELANGANA - 508207  
PH. NO :7993066054



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**BUCHALA RAGHU**

for successfully completing the course

**Programming in C++**

with a consolidated score of **70** %

Online Assignments	24.63/25	Programming Exam	25/25	Proctored Exam	20/50
--------------------	----------	------------------	-------	----------------	-------

Total number of candidates certified in this course: 336

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Sep 2021  
(8 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



*Swecha*

## Certificate of Internship

This is to certify that

**RAGHU BUCHALA**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



30 Oct, 2021

# Thummala Ram Charan Reddy

has successfully completed

## Programming Foundations with JavaScript, HTML and CSS

an online non-credit course authorized by Duke University and offered through Coursera

Susan H. Rodger, Professor of the Practice, Computer Science  
Robert Duvall, Lecturer, Computer Science  
Owen Astrachan, Professor of the Practice, Computer Science  
Andrew D. Hilton, Assistant Professor of the Practice, Electrical and Computer Engineering

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/9DX4Z6Q53GSL](https://coursera.org/verify/9DX4Z6Q53GSL)  
Coursera has confirmed the identity of this individual and their participation in the course.



Dec 14, 2021

# Thummala Ram Charan Reddy

has successfully completed

## Java Programming: Solving Problems with Software

an online non-credit course authorized by Duke University and offered through Coursera

COURSE  
CERTIFICATE



Susan H. Rodgers, Owen Astrachan, Andrew D. Hilton, Robert Duvall

Verify at [coursera.org/verify/5QFYN3Z8HF7K](https://coursera.org/verify/5QFYN3Z8HF7K)  
Coursera has confirmed the identity of this individual and their participation in the course.

*Swecha*

## Certificate of Internship

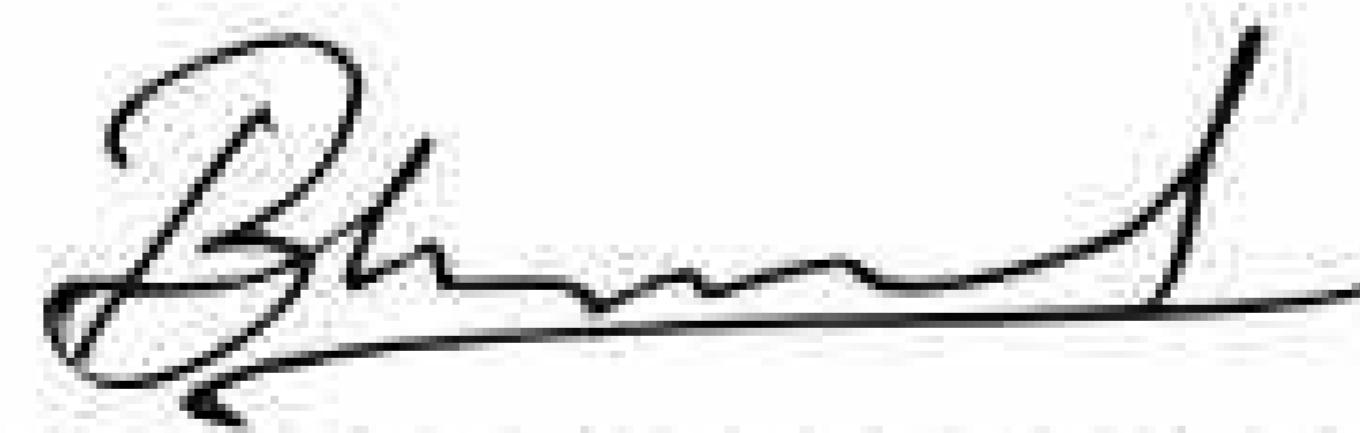
This is to certify that

**Ram Charan Reddy Thummala**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13633305

To  
SAI ABHIRAM ALLURI  
MIG 12/8, 5TH PHASE, KPHB COLONY  
MIG 12/8, 5TH PHASE, KPHB COLONY  
HYDERABAD  
TELANGANA - 500085  
PH. NO :9491395487



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**SAI ABHIRAM ALLURI**

for successfully completing the course

**Programming in Java**



with a consolidated score of **81** %

Online Assignments	24.25/25	Programming Exam	25/25	Proctored Exam	32/50
--------------------	----------	------------------	-------	----------------	-------

Total number of candidates certified in this course: **2649**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



# CERTIFICATE

## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **SAI ABHIRAM ALLURI** ▶

This is to certify that the above mentioned candidate has successfully completed **Cyber Security** live projects from Artifintel in association with Skillvertex from 5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022

During this internship he/she showed diligence, consistency & determination.

*Shivam Sharma*

**Shivam Sharma**  
(VP - Human Resources)



*Swecha*

## Certificate of Internship

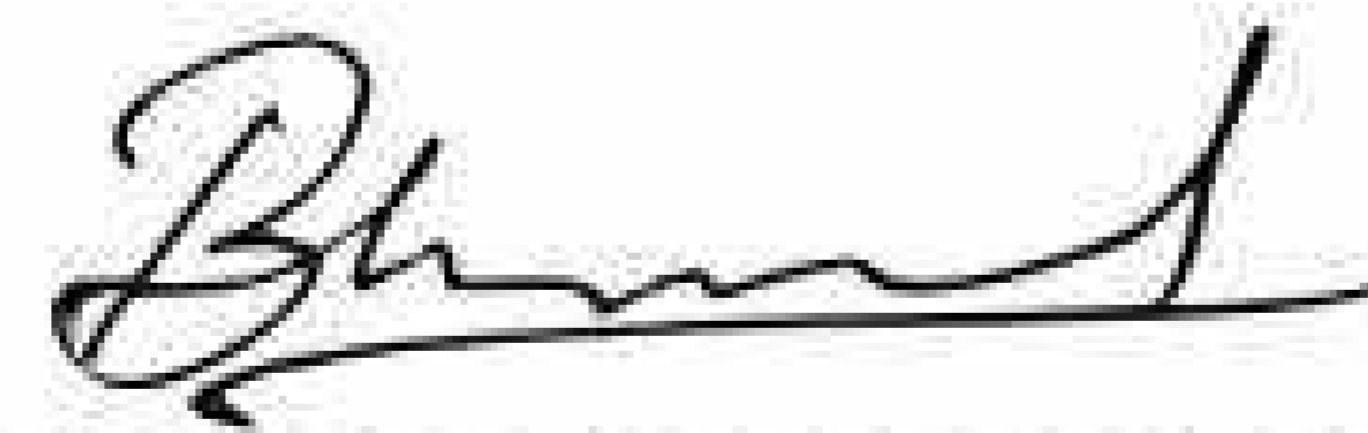
This is to certify that

**Mandala Sai Ganesh Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

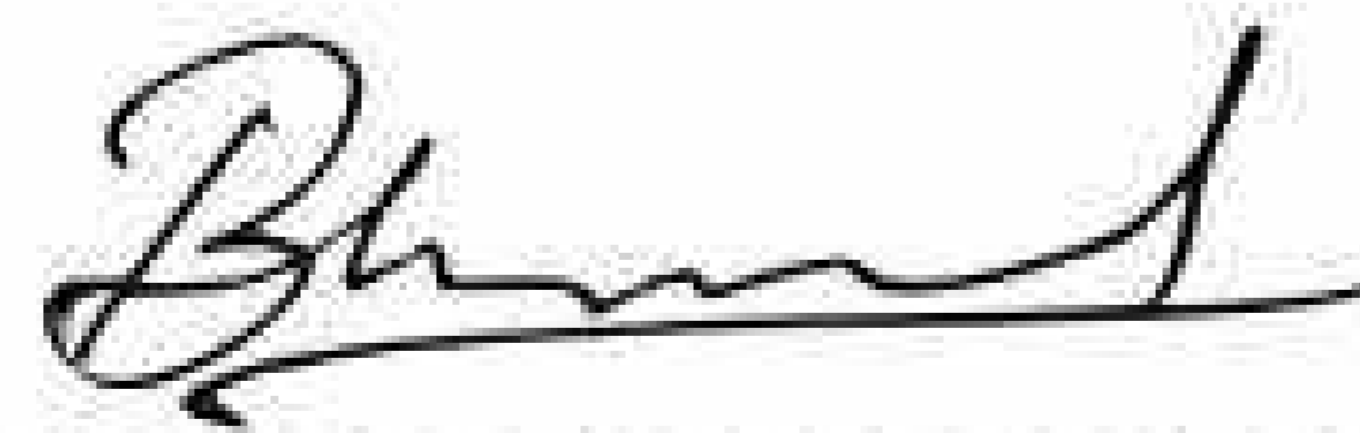
This is to certify that

**BANDARI SAI KISHORE**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

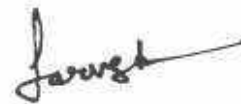
# Certificate of Training

**G G G SAI MURARI**

from CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY has successfully completed an 8-week online training on **Web Development**. The training consisted of HTML, CSS, Bootstrap, DBMS, PHP, JS, React, and Final Project modules.

G G G SAI scored 100% marks in the final assessment and is a top performer in the training.

We wish G G G SAI all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-04      Certificate no. : 6D36C904-F4AD-92E6-4E60-04CD7A96CF01

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)

# CERTIFICATE

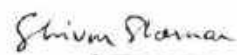
## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **KOREM SAI RUTHVIK REDDY** ▶

This is to certify that the above mentioned candidate has successfully completed **Cyber Security** live projects from Artifintel in association with Skillvertex from 5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022

During this internship he/she showed diligence, consistency & determination.



**Shivam Sharma**  
(VP - Human Resources)

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS68S33632835

To  
SAI SAKETH KONJERLA  
18-4, ANGADI BAZAR, LUXETTIPET  
6-13, GANDHI CHOWK, LUXETTIPET  
LUXETTIPET  
TELENGANA - 504215  
PH. NO :7989660438



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**SAI SAKETH KONJERLA**

for successfully completing the course

## Design and Analysis of Algorithms

with a consolidated score of **66** %

Online Assignments	24.5/25	Proctored Exam	41.25/75
--------------------	---------	----------------	----------

Total number of candidates certified in this course: **514**

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

Aug-Oct 2021  
(8 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



Indian Institute of Technology Madras



*Swecha*

## Certificate of Internship

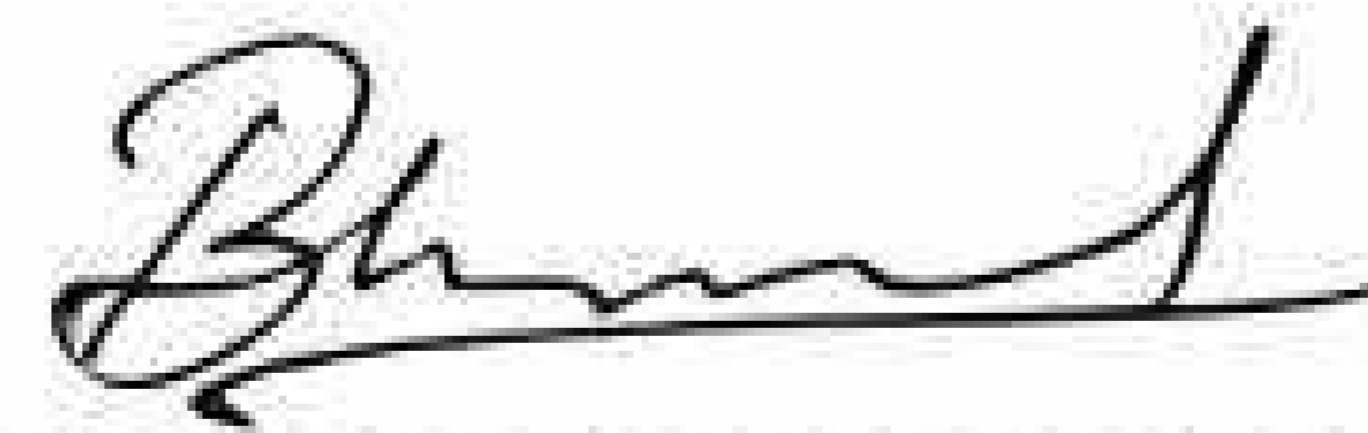
This is to certify that

**Sai Saketh Konjerla**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



## Certificate of Internship

This is to certify that

**SAI VISHAL UPPALA**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.

**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13633017

To  
SATVIK YADAV ELITEM  
PLOT-1, FLAT-202, MUKUNDA RESIDENCY  
JAYANAGAR, NEW BOWENPALLY, SECUNDERABAD  
HYDERABAD  
TELANGANA - 500011  
PH. NO :8125403627



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**SATVIK YADAV ELITEM**

for successfully completing the course

**Programming in Java**



with a consolidated score of **81** %

Online Assignments	23.31/25	Programming Exam	25/25	Proctored Exam	33/50
--------------------	----------	------------------	-------	----------------	-------

Total number of candidates certified in this course: **2649**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur





This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13630462

To  
M G SHAHBAZ JAHAN  
4-7-8-90/A, RAGHAVENDRA NAGAR ,NACHARAM  
TELANGANA - 500076  
PH. NO :919491626157



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**M G SHAHBAZ JAHAN**

for successfully completing the course

**Programming in Java**



with a consolidated score of **82** %

Online Assignments	22.53/25	Programming Exam	25/25	Proctored Exam	34/50
--------------------	----------	------------------	-------	----------------	-------

Total number of candidates certified in this course: **2649**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Mail - SHAIK ABDUL KHADER AL AMOUDI - Outlook

https://outlook.office.com/mail/.../AAQ2kAGVhZDAwZjMxOTk1MwQBNjJlNC05MTFjOUM2ZkZDQyZmY5MwAQ4097rperTshFw/Qow0tz4o/630/sz/AAN%...

Search

Swecha\_Internship\_Cohort\_6\_Certificatio... Download Print Open in new tab Hide email

This file has limited permissions. You may not have access to some features. [View permissions](#)

## Certificate of Internship

This is to certify that

**Shaik Abdul Khader Al Amoudi Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlagal, Nehru Outer Ring Rd, Madhava Reddy Colony, Gachibowli, Telangana 500032

**160120733051\_internship certificate**

5 SHAIK ABDUL KHADER AL AMOUDI  
Fri 11/21/2021 9:35 AM  
To: suvarnakumari\_rse@cbiit.ac.in

Swecha\_Internship\_Coho...  
...college-mysharepoint...

[Reply](#) [Forward](#)

160120733051\_internship.c... (No subject)

Taskbar: File Explorer, Edge, Word, PowerPoint, Teams, Outlook, OneDrive, OneNote, Photos, Settings, Network, Signal, Wi-Fi, Ethernet, 17:11, 14-03-2022

*Swecha*

## Certificate of Internship

This is to certify that

**Shyam Sundar Pobbothi Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

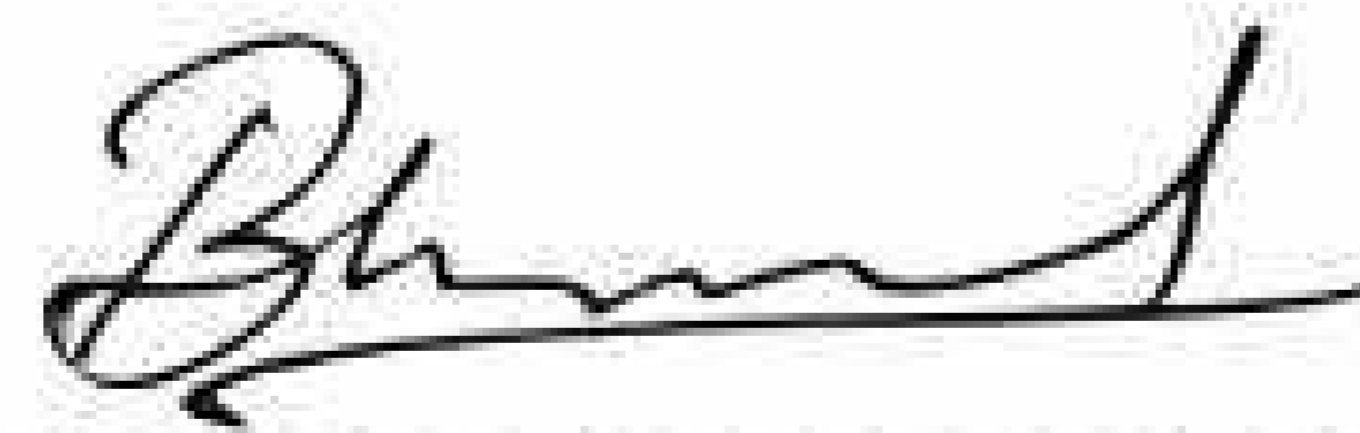
This is to certify that

**Siddhardha Kattanguru**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

# C E R T I F I C A T E

## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **SREE HARSHITH VAJINEPALLI** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022**

During this internship he/she showed diligence, consistency & determination.



**Shivam Sharma**  
(VP - Human Resources)

# C E R T I F I C A T E

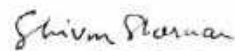
## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **SREE HARSHITH VAJINEPALLI** ▶

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5<sup>th</sup> November to 5<sup>th</sup> December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma  
(VP - Human Resources)



Student UIN : 2002559

Certificate no. : RA1713559

# CERTIFICATE

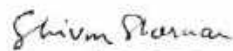
## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**SUMANTH GEDDAM**

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5<sup>th</sup> November to 5<sup>th</sup> December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma  
(VP - Human Resources)



Student UIN : 2002524

Certificate no. : RA1713524

# C E R T I F I C A T E

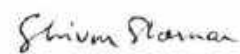
## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **SUMANTH GEDDAM** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022**

During this internship he/she showed diligence, consistency & determination.



**Shivam Sharma**  
(VP - Human Resources)



*Swecha*

## Certificate of Internship

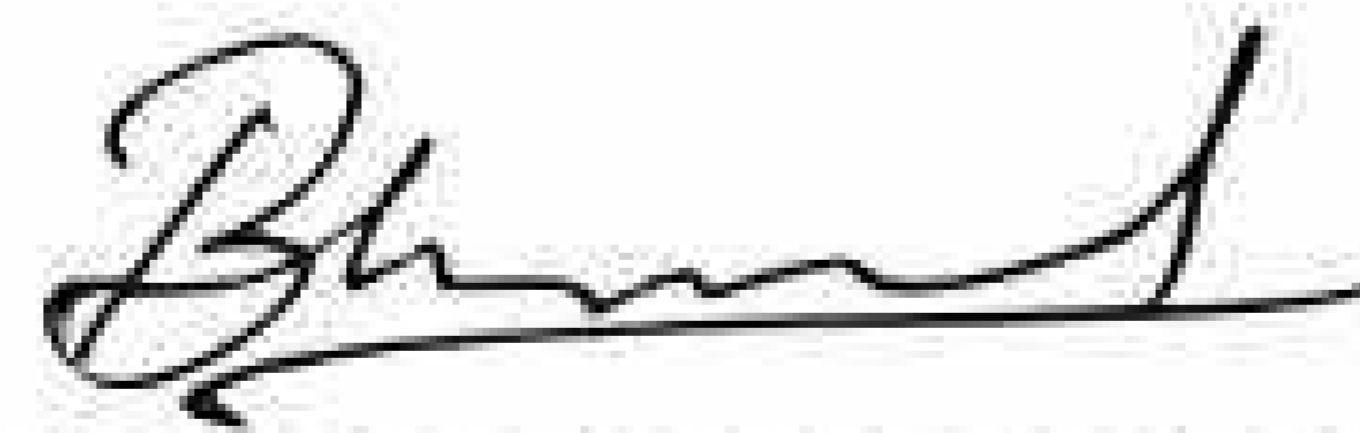
This is to certify that

**ROSE UDAY**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

# C E R T I F I C A T E

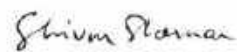
## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **BATHULA VAMSHI KRISHNA** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022**

During this internship he/she showed diligence, consistency & determination.



**Shivam Sharma**  
(VP - Human Resources)

*Swecha*

## Certificate of Internship

This is to certify that

**Vikram Mali**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

# CERTIFICATE

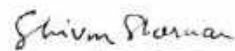
## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**VISHNU SATHWIK REBALLY**

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5<sup>th</sup> November to 5<sup>th</sup> December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma  
(VP - Human Resources)



Student UIN : 2002560

Certificate no. : RA1713560

# C E R T I F I C A T E

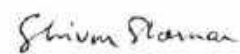
## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **VISHNU SATHWIK REBALLY** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022**

During this internship he/she showed diligence, consistency & determination.



**Shivam Sharma**  
(VP - Human Resources)

# C E R T I F I C A T E

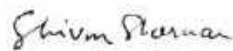
## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**MAYANK GUJRATHI**

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5<sup>th</sup> November to 5<sup>th</sup> December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma  
(VP - Human Resources)



Student UIN : 2002538

Certificate no. : RA1713538

# CERTIFICATE

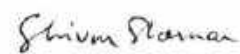
## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **MAYANK GUJRATHI** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022**

During this internship he/she showed diligence, consistency & determination.



**Shivam Sharma**  
(VP - Human Resources)

*Swecha*

## Certificate of Internship

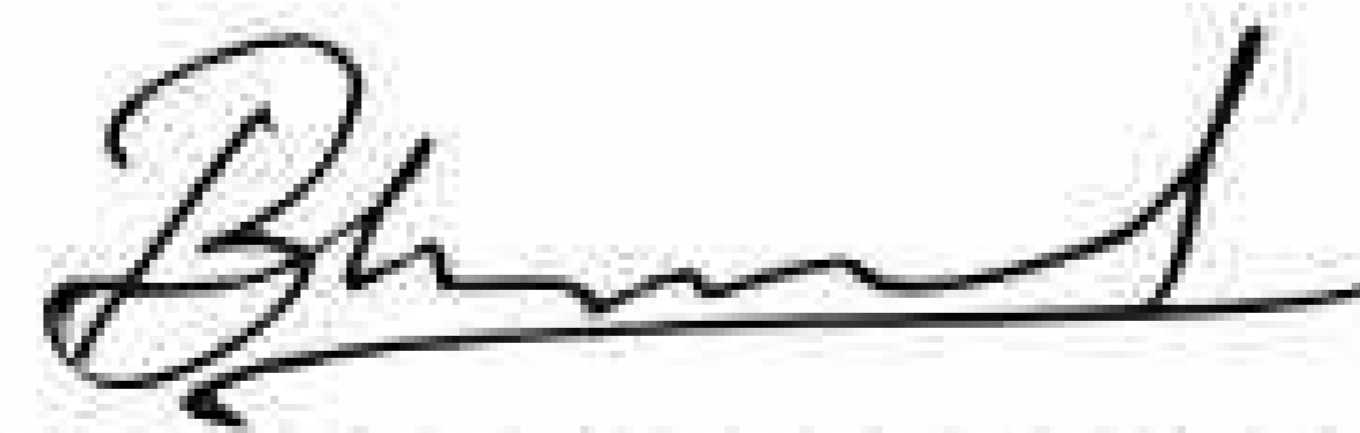
This is to certify that

**VADNALA NIKITA**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



*Swecha*

## Certificate of Internship

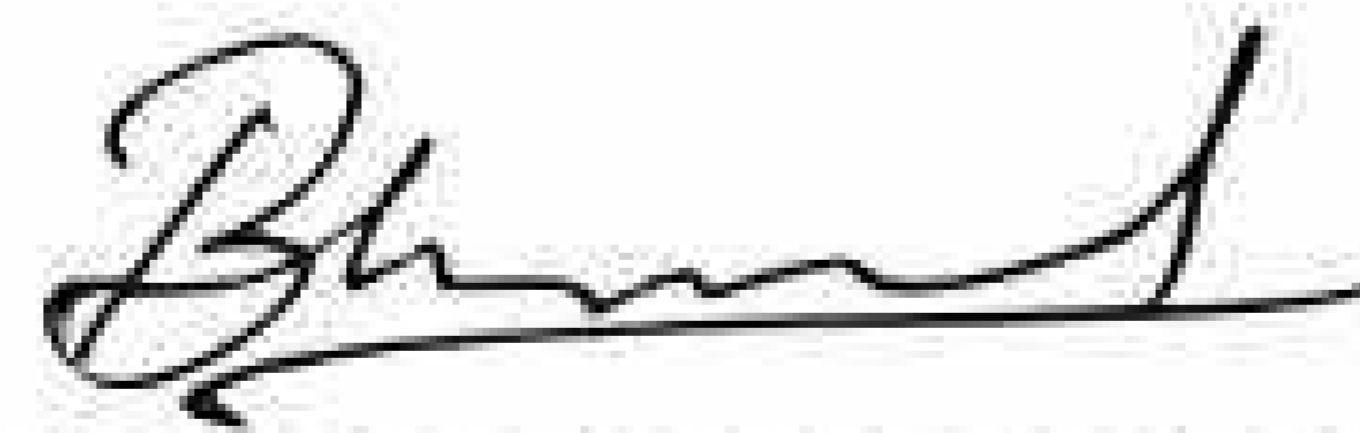
This is to certify that

**SAI AKSHITHA**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

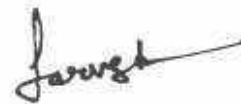
# Certificate of Training

**Pagidipala Rajavardhan**

from Chaitanya Bharathi Institute of Technology has successfully completed an 8-week online training on **Web Development**. The training consisted of HTML, CSS, Bootstrap, DBMS, PHP, JS, React, and Final Project modules.

Pagidipala scored 93% marks in the final assessment and is a top performer in the training.

We wish Pagidipala all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-07

Certificate no. : 84BA68D2-D62E-B843-F61E-B9991A3E851E

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)

# CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

## Aleti Snigdha

participated in "Artificial Intelligence - Languify"  
from 11th Nov, 2021 to 11th Jan, 2022  
and successfully completed the program.

16-Jan-2022

DATE



PAUL MATHEW. I  
OVERALL COORDINATOR

*Swecha*

## Certificate of Internship

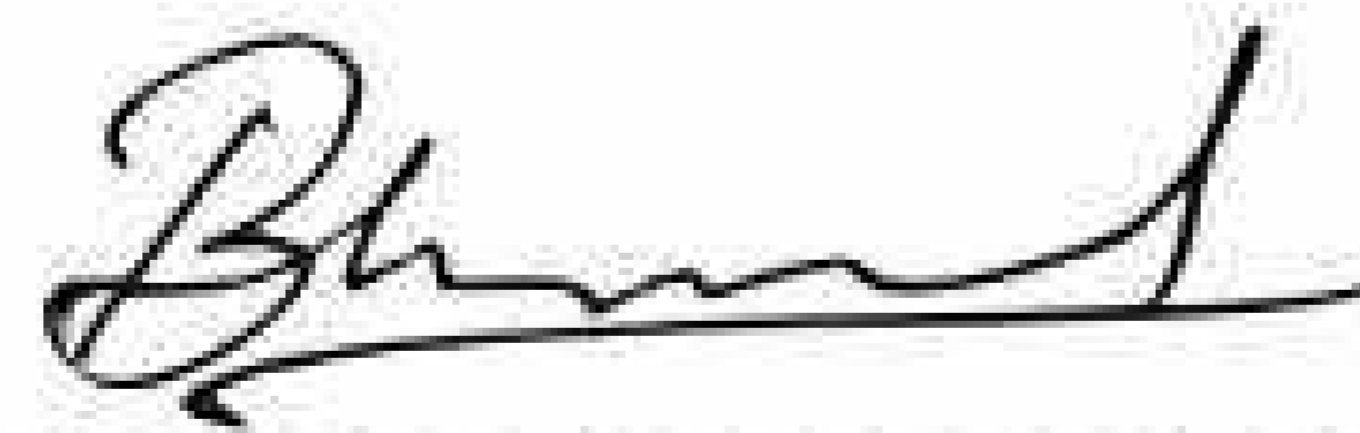
This is to certify that

**ANUSHA BOORA**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

# CERTIFICATE

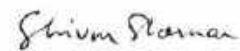
## OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **TANISH ROHIL GALI** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5<sup>th</sup> December 2021 to 5<sup>th</sup> January 2022**

During this internship he/she showed diligence, consistency & determination.



**Shivam Sharma**  
(VP - Human Resources)

# C E R T I F I C A T E

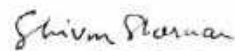
## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**TANISH ROHIL GALI**

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5<sup>th</sup> November to 5<sup>th</sup> December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma  
(VP - Human Resources)



Student UIN : 2002530

Certificate no. : RA1713530

*Swecha*

## Certificate of Internship

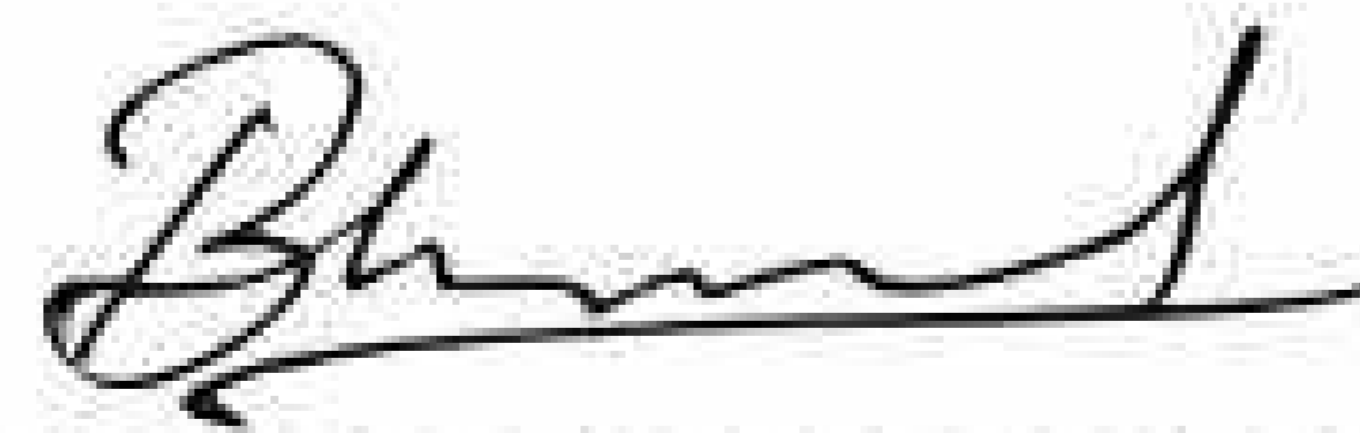
This is to certify that

**Amulya Nandala**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

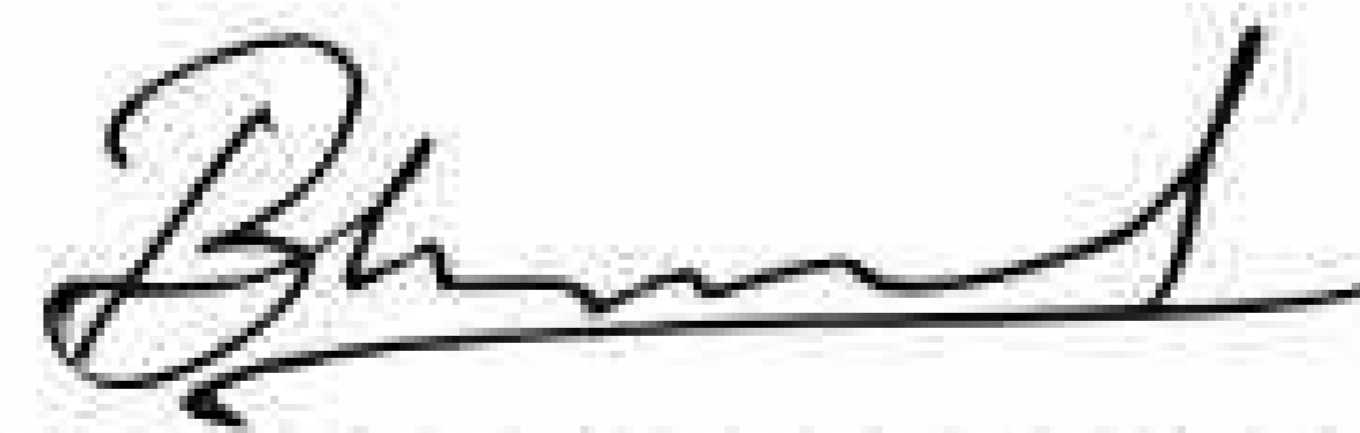
This is to certify that

**Vanam Anjali**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032





Jan 27, 2022

# Hamsitha Kotla

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at:  
[coursera.org/verify/2BMXJASPXBCS](https://coursera.org/verify/2BMXJASPXBCS)

Coursera has confirmed the identity of this individual and their participation in the course.



Jan 27, 2022

# Hamsitha Kotla

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

COURSE  
CERTIFICATE



Verify at:  
[coursera.org/verify/Z4QVRMFFRRTN](https://coursera.org/verify/Z4QVRMFFRRTN)

Coursera has confirmed the identity of this individual and their participation in the course.



Jan 28, 2022

# Hamsitha Kotla

has successfully completed

## C++ Object Basics: Functions, Recursion, and Objects

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

## COURSE CERTIFICATE



Verify at:  
[coursera.org/verify/U4S6JSK74DDP](https://coursera.org/verify/U4S6JSK74DDP)

Coursera has confirmed the identity of this individual and their participation in the course.

*Swecha*

## Certificate of Internship

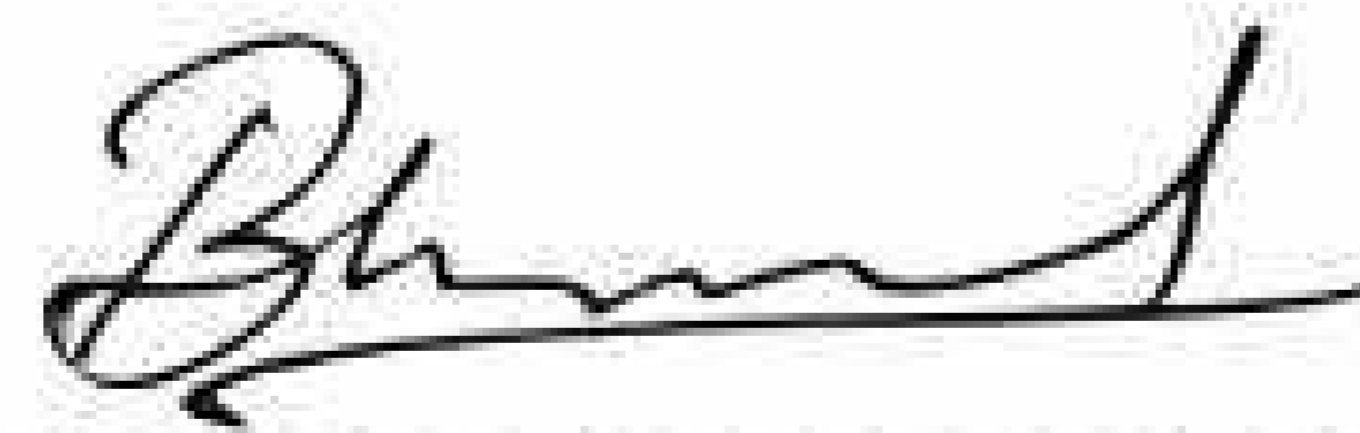
This is to certify that

**Mallu Harshitha Reddy**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

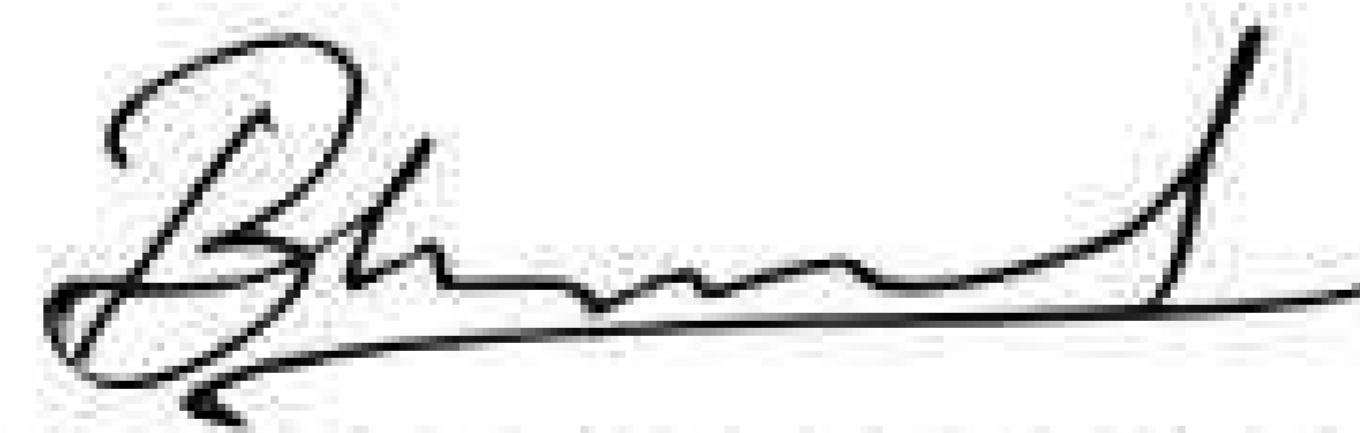
This is to certify that

**Niveditha Reddy Mandala**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

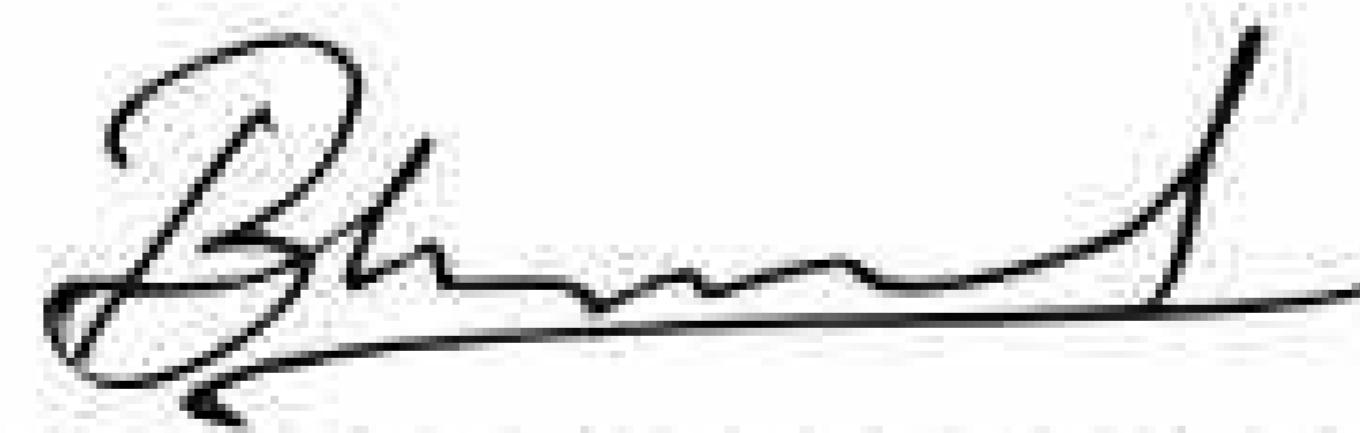
This is to certify that

**Poojitha Pachava**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

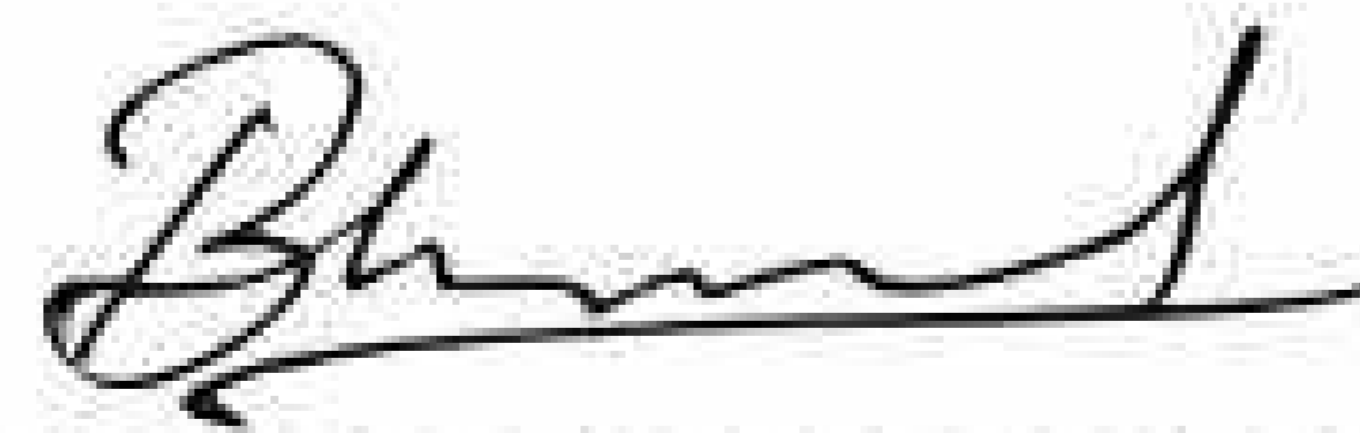
This is to certify that

**Ponnur Roopika**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

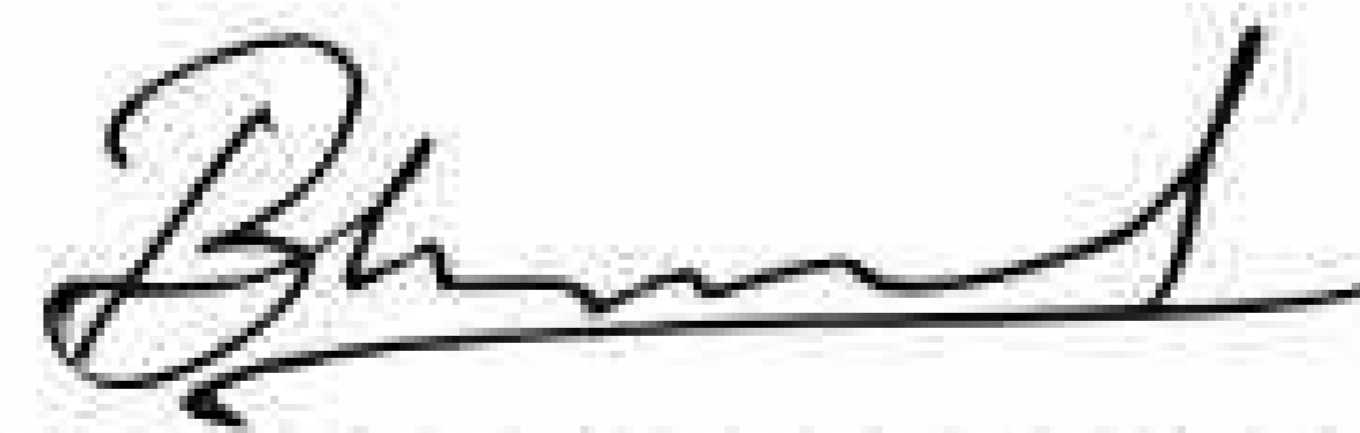
This is to certify that

**Sreeni Tummuru**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



*Swecha*

## Certificate of Internship

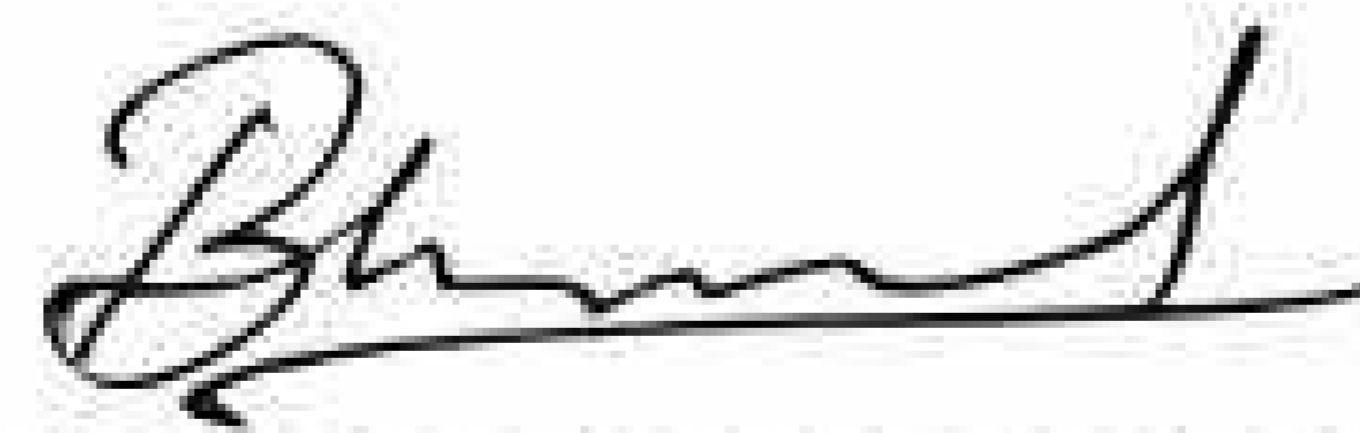
This is to certify that

**Sri Meghana**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

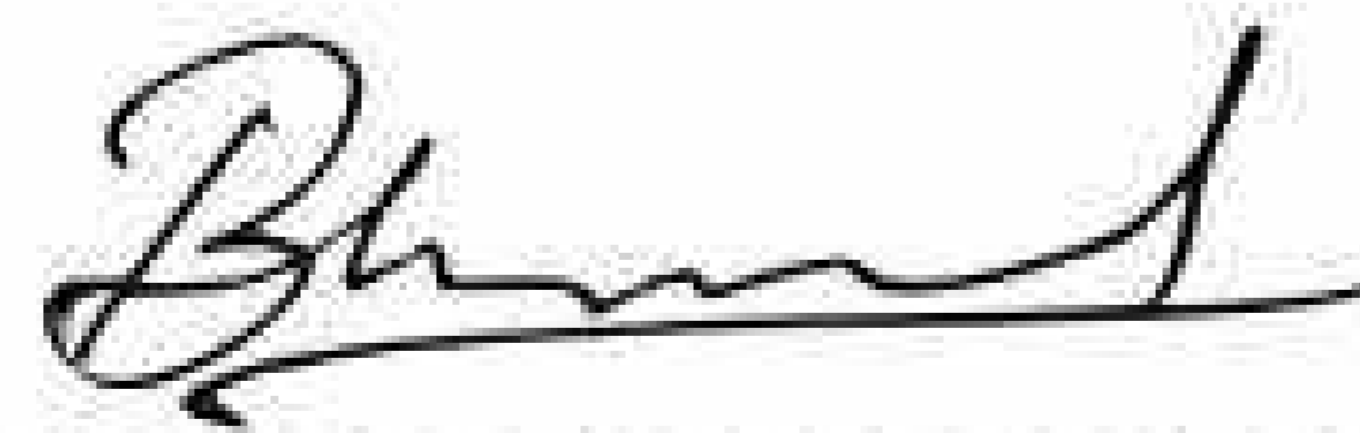
This is to certify that

**Sri Nidhi Challa**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

This is to certify that

**Karri Tejaswi Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

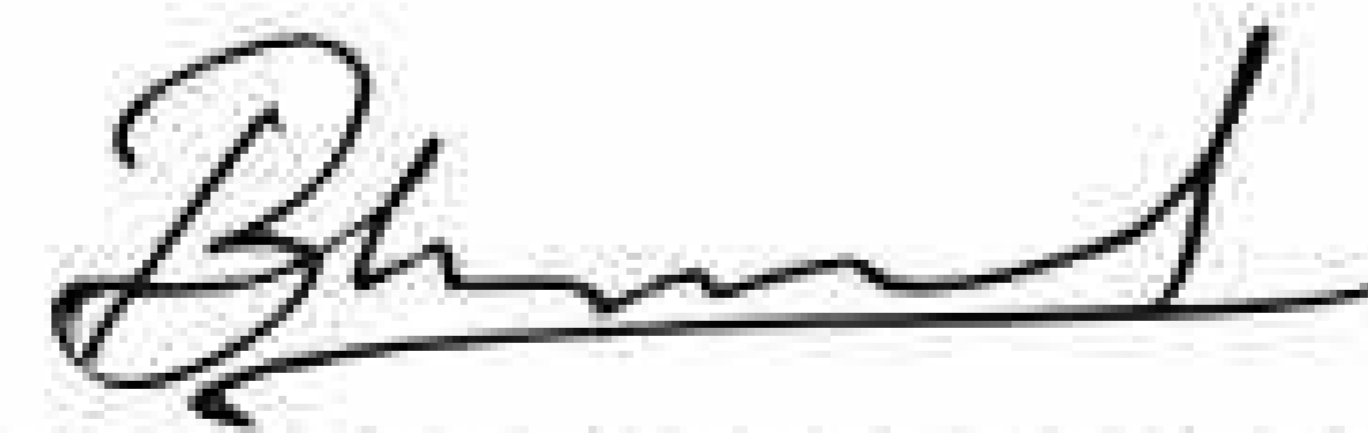
This is to certify that

**Vaasuki Achampeta Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

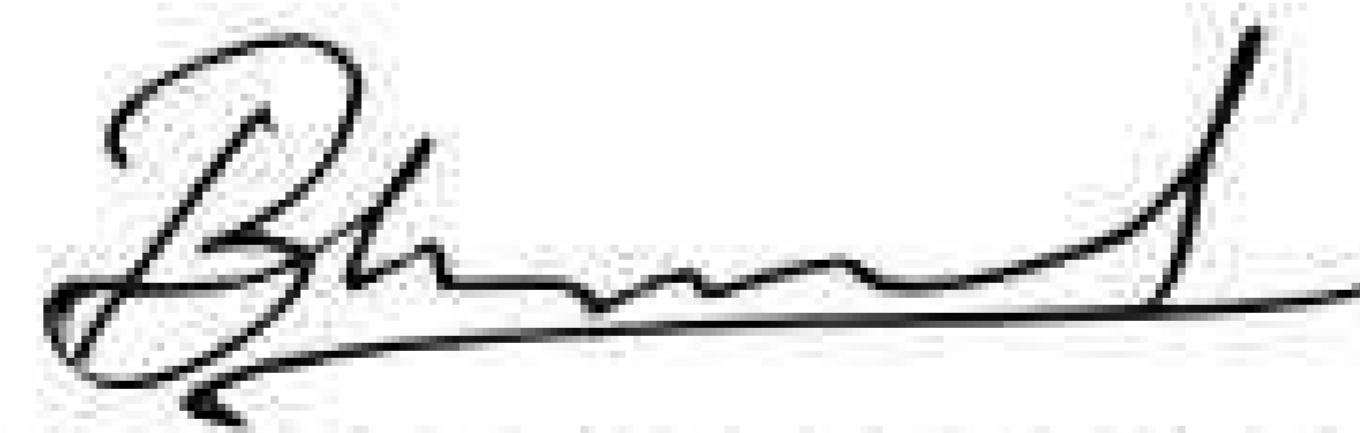
This is to certify that

**Yahshaswitha S Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## **Certificate of Internship**

This is to certify that

**JMS ABHINAV**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



Oct 2, 2021

# ABHINAV SANDRU

has successfully completed

## Java Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

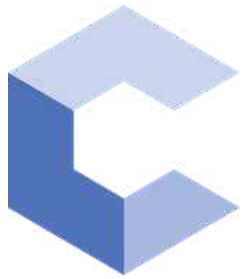
Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

## COURSE CERTIFICATE



Verify at:  
[coursera.org/verify/X44F4CCEQ6GC](https://coursera.org/verify/X44F4CCEQ6GC)

Coursera has confirmed the identity of this individual and their participation in the course.



Mar 20, 2022

# ABHINAV SANDRU

has successfully completed

## Java Basic Structures: Arrays, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

## COURSE CERTIFICATE



Verify at:  
[coursera.org/verify/T96YBS6BT9UP](https://coursera.org/verify/T96YBS6BT9UP)

Coursera has confirmed the identity of this individual and their participation in the course.





Mar 20, 2022

# ABHINAV SANDRU

has successfully completed

## Java Object Basics: Functions, Recursion, and Objects

an online non-credit course authorized by Codio and offered through Coursera

A handwritten signature in black ink, appearing to read 'Patrick Ester'.

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

## COURSE CERTIFICATE



Verify at:  
[coursera.org/verify/D7FVHUA8RCWY](https://coursera.org/verify/D7FVHUA8RCWY)

Coursera has confirmed the identity of this individual and their participation in the course.



**CARAVEL / HR / 2021 - LSD F0343C7BF**

**DATED: Jan 25, 2022**

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Mr. Aditya Yerabati** has completed the internship program as **Developer Intern** under the guidance of Vamsi Kurama.

The duration of this project was from the **13th Sept 2021** to the **13th Jan 2022**.

The internship on evaluation fulfills all the stated criteria, and the student's findings are his original work.

During this period, **Mr. Aditya Yerabati** has worked on various areas of various **projects and documentation** and has met the objectives that were set at the beginning of the project.

**Thanking you,**

A handwritten signature in black ink that reads "Vamsi Kurama". The signature is written in a cursive style and is underlined.

**Vamsi Kurama**

Founder and CEO

Caravel.Tech

*Swecha*

## Certificate of Internship

This is to certify that

**Akash Bathula**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

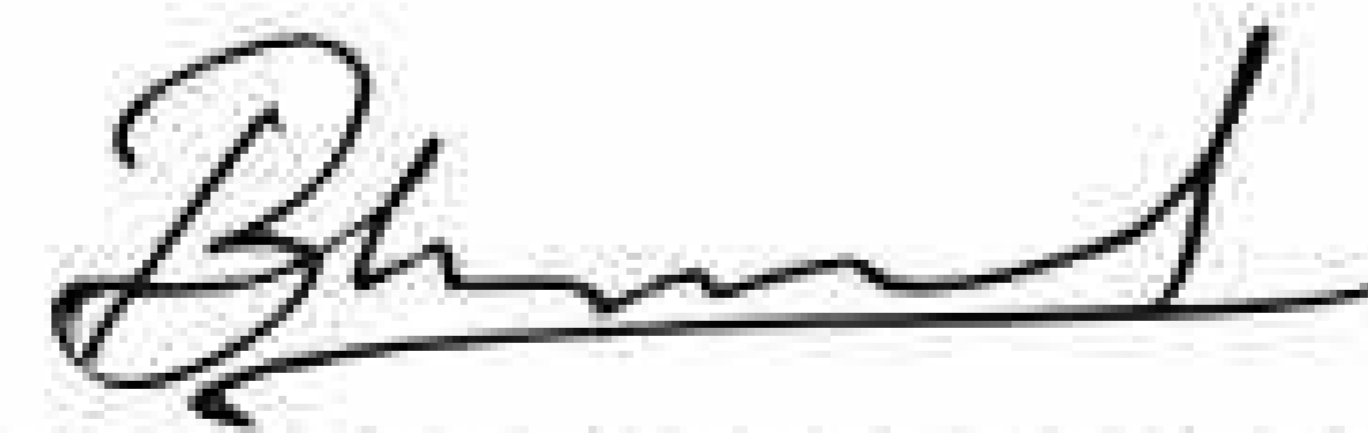
This is to certify that

**Arunanjan Bandari**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



Sep 30, 2021

**GOLLA ASHISH**

has successfully completed

**C++ Basics: Selection and Iteration**

an online non-credit course authorized by Codio and offered through Coursera

**COURSE  
CERTIFICATE**



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/6EGVTXERGSJ2](https://coursera.org/verify/6EGVTXERGSJ2)  
Coursera has confirmed the identity of this individual and their participation in the course.



Nov 16, 2021

# GOLLA ASHISH

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

### COURSE CERTIFICATE



Verify at [coursera.org/verify/2ATU575877K9](https://coursera.org/verify/2ATU575877K9)  
Coursera has confirmed the identity of this individual and their  
participation in the course.

*Swecha*

## Certificate of Internship

This is to certify that

**N Bhanu Prakash**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

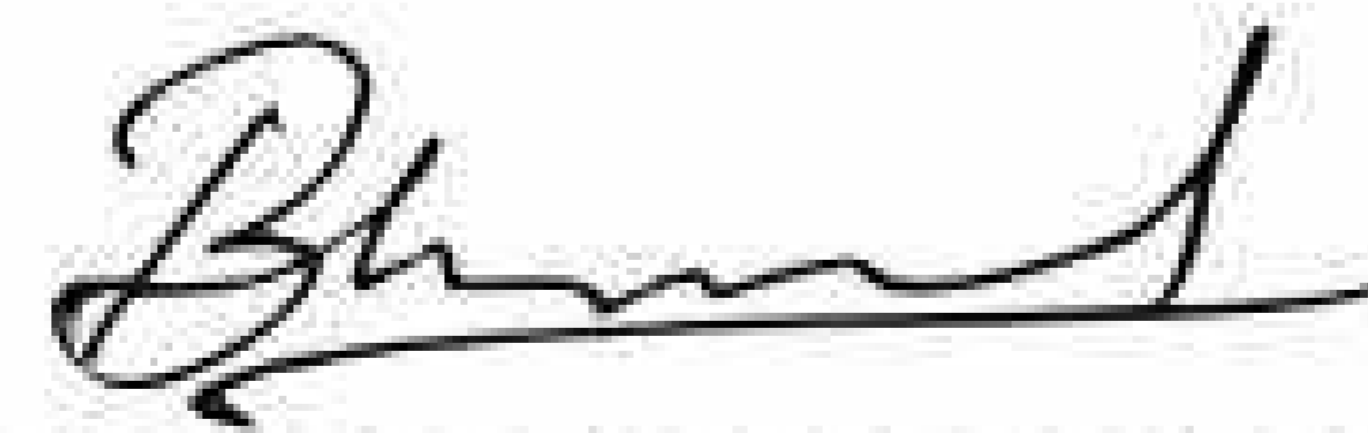
This is to certify that

**Bharathchandra Nagunuri**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



# Certificate of Training

## Chandrabose Chiluka

from CBIT has successfully completed an 8-week online training on **Web Development**. The training consisted of HTML, CSS, Bootstrap, DBMS, PHP, JS, React, and Final Project modules.

Chandrabose scored 91% marks in the final assessment and is a top performer in the training.

We wish Chandrabose all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-03

Certificate no. : B5A1EAB7-2B7E-2617-82EF-0943839B7BC6

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)



CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)  
Kokapet ( Village), Gandipet, Hyderabad, Telangana-500075. [www.cbti.ac.in](http://www.cbti.ac.in)



COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

42  
years

## CARAVEL TECH INTERNSHIP PROJECT REPORT

# MASK DETECTION

Dheeraj Nune

160120733098

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

(AUTONOMOUS)

## **Acknowledgment:**

We would like to express our heartfelt gratitude to our industry supervisor, for his invaluable guidance and constant support, along with his capable instruction and persistent encouragement. We are grateful to our Head of Department, for her steady support and for the provision of every resource required for the completion of this project. We would like to take this opportunity to thank our principal, as well as the management of the institute, for permitting us to do this internship.

## **Contents:**

1	Abstract	1
2	Aim	1
3	Motivation	1
4	Specifications	1
5	Methodology	2
6	Source code	2
7	Outputs	7
8	Conclusion	8

## **Abstract:**

Mask Detection Software identifies if the person is wearing a mask or not with high precision. It can be used to develop a more sophisticated application later on which can be installed in shopping malls, offices etc.

## **Aim:**

To develop a software that checks if the person is wearing masks or not by clicking photos realtime.

## **Motivation:**

Masks have become a necessity these days. It has become a standard protocol to verify masks outside any malls, shopping complexes, offices. Shifting to digital methods for this verification can save a lot of time and effort.

## **Hardware and Software Specs Required:**

### **Hardware requirements:**

RAM: 4GB and above

PROCESSOR: 64-bit

HARDDISK: 2.5GB is minimum

### **Software requirements:**

OS: windows or linux

VS Code is required

Language: Python

Modules required:

- Lightning Flash
- Torch
- Tkinter
- PIL
- cv2

## Methodology:

We will have to build up a machine learning model which can judge if a person in the picture has mask on or not

We use the lightning Flash Image classification module to train the mask detection model

We import a data module to train the model and also validate it

Then we finetune our model

We can use Tkinter to create a gui window to display the images which were given as input to the code and the predicted output

We can use video capture function from cv2 to prompt the user to click a picture of himself and give our result using our trained model

## Source Code:

### main.py:

```
import torch

import flash

from flash.image import ImageClassificationData, ImageClassifier

import tkinter
from tkinter import *
from PIL import Image, ImageTk

root = Tk()

photos = [
    r"C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\with_mask_525.jpg",
    r"C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\with_mask_526.jpg",
    r'C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\without_mask_500.jpg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\without_mask_501.jpg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\with_mask_3710.jpg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\with_mask_3711.jpg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\without_mask_3200.jpg',
```

```

    r'C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\CYMERA_20210922_113550.jpg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\IMG_20211120_175110.jpg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\Screenshot_20211120-231252.jpg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\without_mask_2500.jpg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK DETECTION\mask_detection_data\WhatsApp Image
2021-11-22 at 9.25.13 PM.jpeg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK DETECTION\mask_detection_data\adi wom.jpeg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK DETECTION\mask_detection_data\sreek wom.jpg',
]

```

```
a=50
```

```
b=50
```

```
width = 50
```

```
height = 50
```

```
for photo in photos:
```

```
    image1 = Image.open(photo)
```

```
    resize_image = image1.resize((width, height))
```

```
    #image1 = ImageTk.PhotoImage(resize_image)
```

```
    #test = ImageTk.PhotoImage(image1)
```

```
    test = ImageTk.PhotoImage(resize_image)
```

```
    label1 = tkinter.Label(image=test)
```

```
    label1.image = test
```

```
    label1.place(x=a, y=b)
```

```
    b=b+60
```

```
    if b==350:
```

```
        a=a+300
```

```
        b=50
```

```
# 1. Create the DataModule
```

```
datamodule = ImageClassificationData.from_folders(
```

```
    train_folder="C:\\Users\\boorl\\OneDrive\\Desktop\\MASK
```

```
DETECTION\\mask_detection_data\\train",
```

```
    val_folder="C:\\Users\\boorl\\OneDrive\\Desktop\\MASK DETECTION\\mask_detection_data\\val"
```

```
)
```

```
# 2. Build the task
```

```
model = ImageClassifier(backbone="resnet18", num_classes=datamodule.num_classes)
```

# 3. Create the trainer and finetune the model

```
trainer = flash.Trainer(max_epochs=3, gpus=torch.cuda.device_count())
trainer.finetune(model, datamodule=datamodule, strategy="freeze")
```

# 4. Predict what's on a few images! With or without mask?

```
predictions = model.predict(
    [
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\with_mask_525.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\with_mask_526.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\without_mask_500.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\without_mask_501.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\with_mask_3710.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\with_mask_3711.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\without_mask_3200.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\CYMER_A_20210922_113550.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\IMG_20211120_175110.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\Screenshot_20211120-231252.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK DETECTION\mask_detection_data\WhatsApp Image
        2021-11-22 at 9.25.13 PM.jpeg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK DETECTION\mask_detection_data\adi wom.jpeg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK DETECTION\mask_detection_data\sreek wom.jpg",
    ]
)
print(predictions)

a=150
b=50
for prediction in predictions:
    user_name = Label(root, text = prediction).place(x = a,y = b)
    b=b+60
    if b==350:
        a=a+300
```

```
b=50
```

```
# 5. Save the model!
```

```
trainer.save_checkpoint("image_classification_model.pt")
```

```
root.mainloop()
```

### **main2.py:**

```
import cv2
```

```
import main
```

```
cam = cv2.VideoCapture(0)
```

```
cv2.namedWindow("test")
```

```
img_counter = 0
```

```
images=[]
```

```
while True:
```

```
    ret, frame = cam.read()
```

```
    if not ret:
```

```
        print("failed to grab frame")
```

```
        break
```

```
    cv2.imshow("test", frame)
```

```
    k = cv2.waitKey(1)
```

```
    if k%256 == 27:
```

```
        # ESC pressed
```

```
        print("Escape hit, closing...")
```

```
        break
```

```
    elif k%256 == 32:
```

```
        # SPACE pressed
```

```
        img_name = "opencv_frame_{}.png".format(img_counter)
```

```
        cv2.imwrite(img_name, frame)
```

```
        print("{} written!".format(img_name))
```

```
        img_counter += 1
```

```
        images.append(img_name)
```

```
cam.release()
```

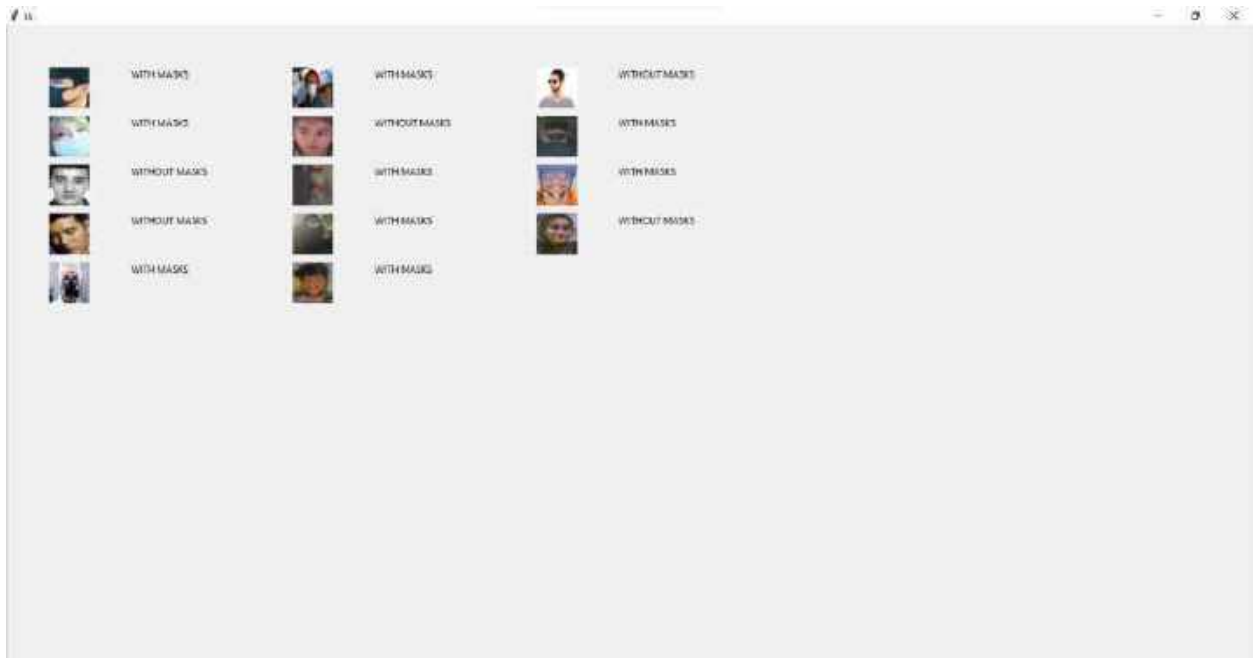
```
cv2.destroyAllWindows()
```



```
prediction = main.model.predict(images)
```

```
print(prediction)
```

## Output:



```
opencv_frame_0.png written!  
Escape hit, closing...  
[ WARN:0] global D:\a\opencv-python\opencv-python\opencv\modules\  
ReaderCB terminating async callback  
['WITH MASKS']  
PS C:\Users\boor1\OneDrive\Desktop\MASK DETECTION> |
```

Video of the working of code:

<https://drive.google.com/file/d/1685X9ucqWFcjOiotzqmOt8xvuHpEDTAS/view?usp=sharing>

## Conclusion:

We have successfully developed a program which clicks pictures realtime and analyses if the person is wearing masks or not.



Sep 13, 2021

V S K Harshavardhan Reddy

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE

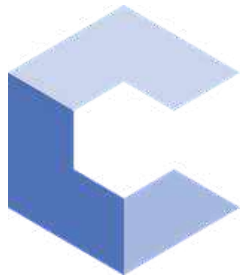


Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/7VW59VFZMG8Q](https://coursera.org/verify/7VW59VFZMG8Q)

Coursera has confirmed the identity of this individual and their participation in the course.



Sep 19, 2021

V S K Harshavardhan Reddy

has successfully completed

**C++ Basic Structures: Vectors, Pointers, Strings,  
and Files**

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/69GT5S9CQT64](https://coursera.org/verify/69GT5S9CQT64)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Oct 2, 2021

V S K Harshavardhan Reddy

has successfully completed

C++ Object Basics: Functions, Recursion, and  
Objects

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/TE5ERULMUHN3](https://coursera.org/verify/TE5ERULMUHN3)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Oct 16, 2021

V S K Harshavardhan Reddy

has successfully completed

Object-Oriented C++: Inheritance and Encapsulation

an online non-credit course authorized by Codio and offered through Coursera

Kevin Noelsaint, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/DGTXL6Y47DCK](https://coursera.org/verify/DGTXL6Y47DCK)  
Coursera has confirmed the identity of this individual and their participation in the course.



6 Nov, 2021

# Kottakapu Hemananda Reddy

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/2ARBMBVDDDQ](https://coursera.org/verify/2ARBMBVDDDQ)  
Coursera has confirmed the identity of this individual and their participation in the course.



2 Jan, 2022

# Kottakapu Hemananda Reddy

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/F9Y42LTMWNWE](https://coursera.org/verify/F9Y42LTMWNWE)  
Coursera has confirmed the identity of this individual and their  
participation in the course.





Jan 23, 2022

# Kottakapu Hemananda Reddy

has successfully completed

## C++ Object Basics: Functions, Recursion, and Objects

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/2GH5P8NL2V99](https://coursera.org/verify/2GH5P8NL2V99)  
Coursera has confirmed the identity of this individual and their participation in the course.



Mar 20, 2022

# Kottakapu Hemananda Reddy

has successfully completed

## Object-Oriented C++: Inheritance and Encapsulation

an online non-credit course authorized by Codio and offered through Coursera

A handwritten signature in black ink, appearing to read 'Kevin Noelsaint'.

Kevin Noelsaint, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

COURSE  
CERTIFICATE



Verify at:  
[coursera.org/verify/38RLG5898WNM](https://coursera.org/verify/38RLG5898WNM)

Coursera has confirmed the identity of this individual and their participation in the course.

*Swecha*

## Certificate of Internship

This is to certify that

**Jayesh Dhoot Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

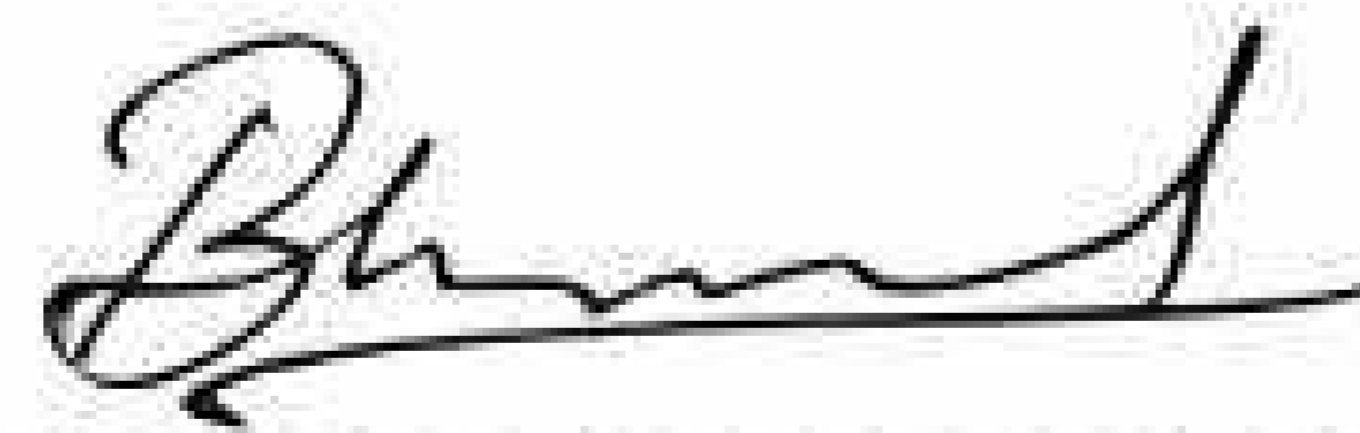
This is to certify that

**Mohd Asaduddin Amaan**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



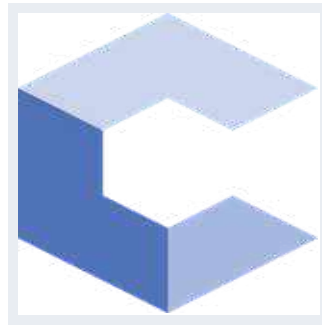
4 Courses

**Java Basics: Selection and Iteration**

**Java Basic Structures: Arrays, Strings, and Files**

**Java Object Basics: Functions, Recursion, and Objects**

**Object-Oriented Java: Inheritance and Encapsulation**



Mar 20, 2022

**Gottumukkula Nithish Rao**

has successfully completed the online, non-credit Specialization

# Programming in Java: A Hands-on Introduction

This specialization is intended for people without programming experience who seek to develop Java programming skills and learn about the underlying computer science concepts that will allow them to pick up other programming languages quickly. In these four courses, you will cover everything from fundamentals to object-oriented design. These topics will help prepare you to write anything from small programs to automate repetitive tasks to larger applications, giving you enough understanding of python to tackle more specialized topics such as Data Science and Artificial Intelligence.

Elise Deitrick, PhD  
VP of Product  
Codio

Patrick Ester  
Curriculum Developer  
Codio

Anh Le  
Curriculum Developer  
Codio

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:

[coursera.org/verify/specialization/T46Z85X61157](https://coursera.org/verify/specialization/T46Z85X61157)



6 Dec, 2021

# Gottumukkula Nithish Rao

has successfully completed

## Java Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

### COURSE CERTIFICATE



Verify at [coursera.org/verify/PKZL8GULRRE2](https://coursera.org/verify/PKZL8GULRRE2)  
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 13, 2022

# Gottumukkula Nithish Rao

has successfully completed

## Java Basic Structures: Arrays, Strings, and Files

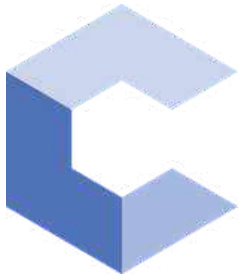
an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

### COURSE CERTIFICATE



Verify at [coursera.org/verify/QA5RCKT8Y32X](https://coursera.org/verify/QA5RCKT8Y32X)  
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 22, 2022

# Gottumukkula Nithish Rao

has successfully completed

## Java Object Basics: Functions, Recursion, and Objects

an online non-credit course authorized by Codio and offered through Coursera

A handwritten signature in black ink, appearing to read 'Patrick Ester'.

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

### COURSE CERTIFICATE



Verify at [coursera.org/verify/52XLNVMDSD3](https://coursera.org/verify/52XLNVMDSD3)  
Coursera has confirmed the identity of this individual and their participation in the course.





Mar 20, 2022

# Gottumukkula Nithish Rao

has successfully completed

## Object-Oriented Java: Inheritance and Encapsulation

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

### COURSE CERTIFICATE



Verify at:  
[coursera.org/verify/FBLW48TX49H4](https://coursera.org/verify/FBLW48TX49H4)

Coursera has confirmed the identity of this individual and their participation in the course.



Jan 7, 2022

Phaneendra Koushik Ballamudi

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/YB5T77UB9RS6](https://coursera.org/verify/YB5T77UB9RS6)  
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 23, 2022

# Phaneendra Koushik Ballamudi

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/CQL8H783KRK8](https://coursera.org/verify/CQL8H783KRK8)  
Coursera has confirmed the identity of this individual and their  
participation in the course.

*Swecha*

## Certificate of Internship

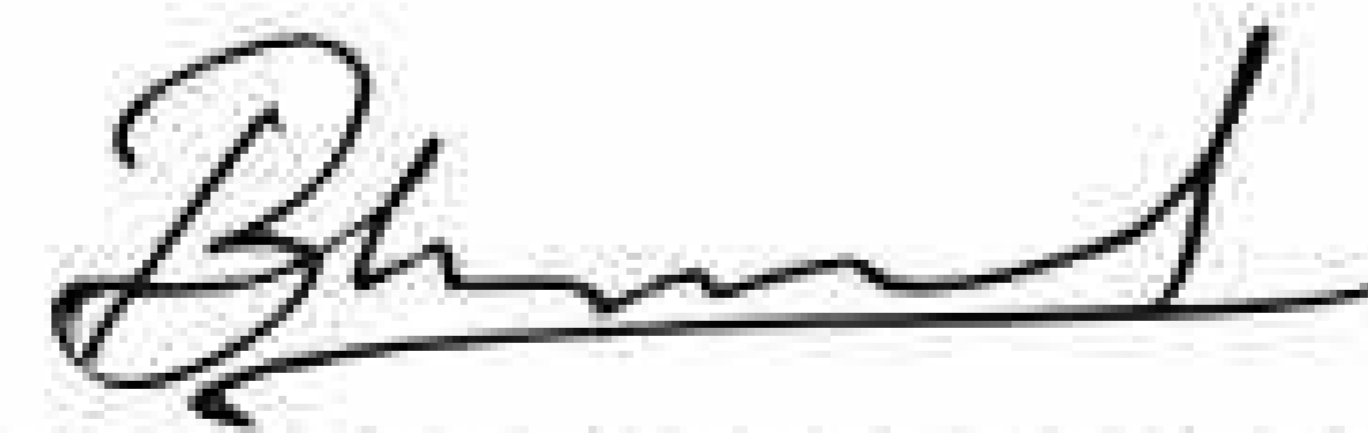
This is to certify that

**A.Pradyumna Balaji Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th,2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony,Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



Aug 31, 2021

**G Ragul**

has successfully completed

**C++ Basics: Selection and Iteration**

an online non-credit course authorized by Codio and offered through Coursera

**COURSE  
CERTIFICATE**



Handwritten signature of Anh Le in black ink.

Anh Le  
Curriculum Developer  
Codio

Handwritten signature of Elise Deitrick in black ink.

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/TLK5MXLUTS2E](https://coursera.org/verify/TLK5MXLUTS2E)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Sep 16, 2021

# G Ragul

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

## COURSE CERTIFICATE



Verify at [coursera.org/verify/ABWKLPKQ82HF](https://coursera.org/verify/ABWKLPKQ82HF)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Sep 18, 2021

# G Ragul

has successfully completed

## C++ Object Basics: Functions, Recursion, and Objects

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

### COURSE CERTIFICATE



Verify at [coursera.org/verify/ACK67B5C32SG](https://coursera.org/verify/ACK67B5C32SG)  
Coursera has confirmed the identity of this individual and their participation in the course.



Sep 28, 2021

# G Ragul

has successfully completed

## Object-Oriented C++: Inheritance and Encapsulation

an online non-credit course authorized by Codio and offered through Coursera

Kevin Noelsaint, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

### COURSE CERTIFICATE



Verify at [coursera.org/verify/D556M3A9D4HF](https://coursera.org/verify/D556M3A9D4HF)  
Coursera has confirmed the identity of this individual and their participation in the course.





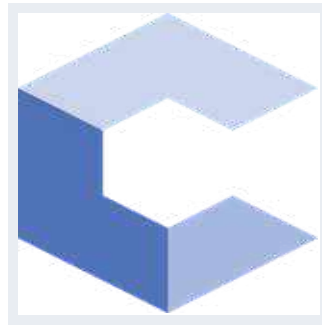
4 Courses

**C++ Basics: Selection and Iteration**

**C++ Basic Structures: Vectors, Pointers, Strings, and Files**

**C++ Object Basics: Functions, Recursion, and Objects**

**Object-Oriented C++: Inheritance and Encapsulation**



19 Mar, 2022

**G Ragul**

has successfully completed the online, non-credit Specialization

# Programming in C++: A Hands-on Introduction

This specialization is intended for people without programming experience who seek to develop C++ programming skills and learn about the underlying computer science concepts that will allow them to pick up other programming languages quickly. In these four courses, you will cover everything from fundamentals to object-oriented design. These topics will help prepare you to write anything from small programs to automate repetitive tasks to larger applications, giving you enough understanding of python to tackle more specialized topics such as Data Science and Artificial Intelligence.

Elise Deitrick, PhD  
VP of Product  
Codio

Anh Le  
Curriculum Developer  
Codio

Kevin Noelsaint  
Curriculum Developer  
Codio

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:

[coursera.org/verify/specialization/XQHBWLE169](https://coursera.org/verify/specialization/XQHBWLE169)

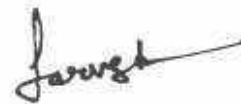
# Certificate of Training

## Sanganabhatla Sai Hemanth

from Chaitanya Bharathi Institute of Technology has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

In the final assessment, Sanganabhatla Sai scored 61% marks.

We wish Sanganabhatla Sai all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-21

Certificate no. : A44AF7A4-9E29-303C-3349-FB0A415197E1

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)

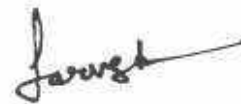
# Certificate of Training

**Sai Kumar**

from CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

In the final assessment, Sai scored 94% marks.

We wish Sai all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-28      Certificate no. : 76B97DD4-CCDE-3F3F-4689-F728FA8309BD

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)

# Certificate of Training

## Rangavajjala Sankara Bharadwaj

from Chaitanya Bharathi Institute Of Technology has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

In the final assessment, Rangavajjala Sankara scored 86% marks.

We wish Rangavajjala Sankara all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-22

Certificate no. : F5D0569A-AFB3-20C4-1858-28339EAAEE7D3

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)



Sep 19, 2021

# Bandaru Sathvik

has successfully completed

## Java Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

### COURSE CERTIFICATE



Verify at [coursera.org/verify/N2WT9CZJEDNC](https://coursera.org/verify/N2WT9CZJEDNC)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Sep 25, 2021

# Bandaru Sathvik

has successfully completed

## Java Basic Structures: Arrays, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

### COURSE CERTIFICATE



Verify at [coursera.org/verify/2JEQ64SZVQ46](https://coursera.org/verify/2JEQ64SZVQ46)  
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 18, 2022

# Bandaru Sathvik

has successfully completed

## Java Object Basics: Functions, Recursion, and Objects

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

### COURSE CERTIFICATE



Verify at [coursera.org/verify/38WHVGF4NB6P](https://coursera.org/verify/38WHVGF4NB6P)  
Coursera has confirmed the identity of this individual and their participation in the course.

*Swecha*

## Certificate of Internship

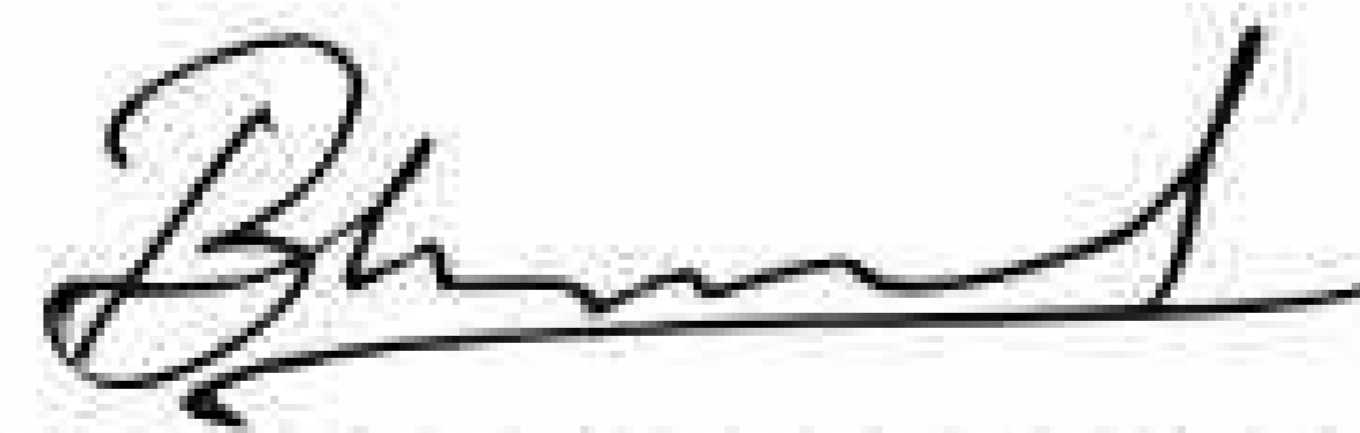
This is to certify that

**Sharon Joseph Enduri Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



*Swecha*

## Certificate of Internship

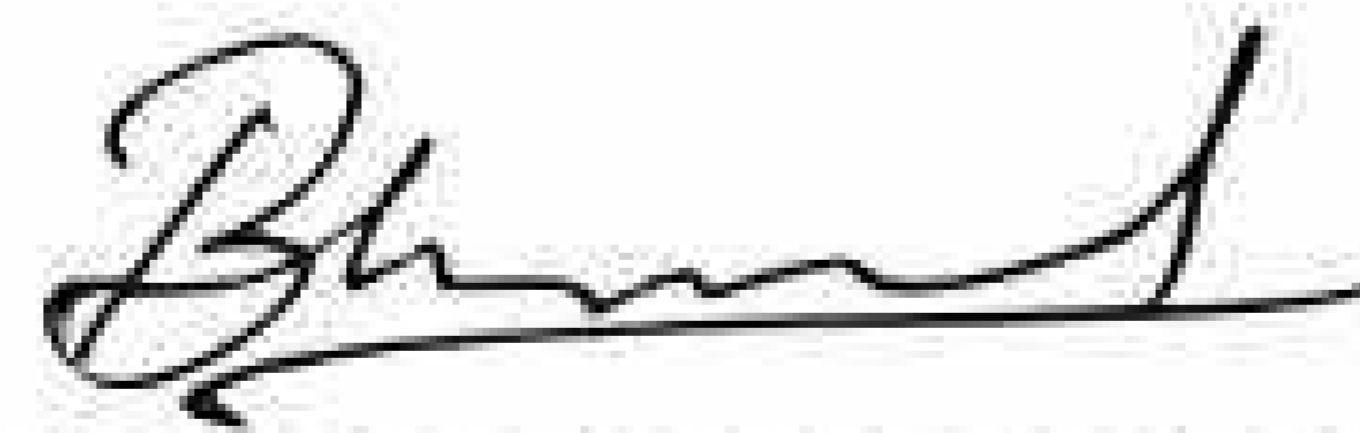
This is to certify that

**Shiva kumar Bandam**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

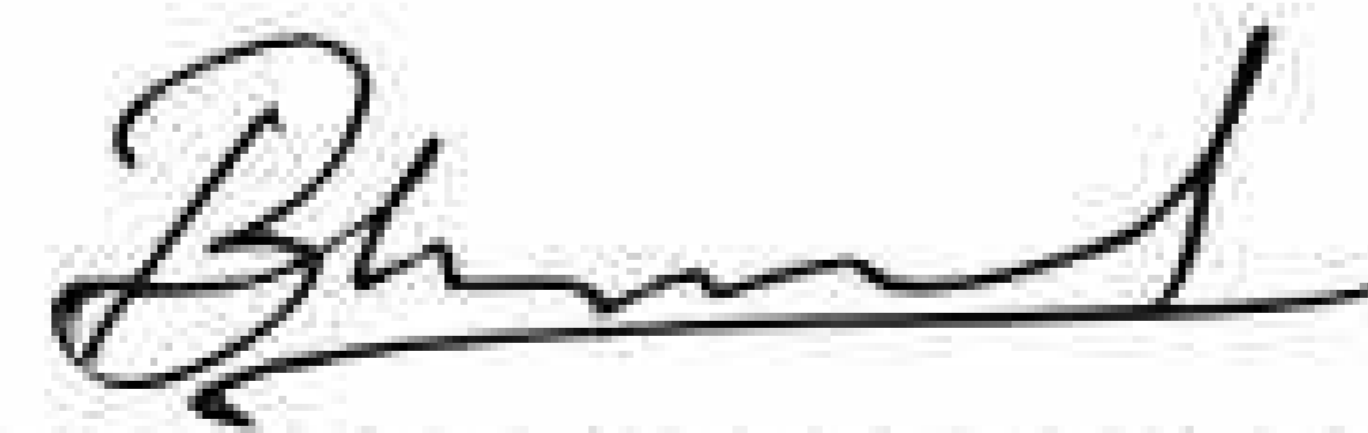
This is to certify that

**Balne Shiva Sai Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



Jan 9, 2022

**Linga Sravan**

has successfully completed

**Java Basics: Selection and Iteration**

an online non-credit course authorized by Codio and offered through Coursera

A handwritten signature in black ink, appearing to read 'Patrick Ester'.

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

**COURSE  
CERTIFICATE**



Verify at [coursera.org/verify/8XPGGS8Z9CCK](https://coursera.org/verify/8XPGGS8Z9CCK)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Jan 22, 2022

# Linga Sravan

has successfully completed

## Java Basic Structures: Arrays, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio  
Ansh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

### COURSE CERTIFICATE



Verify at [coursera.org/verify/U32K9TN5DZKF](https://coursera.org/verify/U32K9TN5DZKF)  
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 29, 2022

# Linga Sravan

has successfully completed

## Java Object Basics: Functions, Recursion, and Objects

an online non-credit course authorized by Codio and offered through Coursera

A handwritten signature in black ink, appearing to read 'Patrick Ester'.

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

### COURSE CERTIFICATE



Verify at [coursera.org/verify/G5PDSQRATLMD](https://coursera.org/verify/G5PDSQRATLMD)  
Coursera has confirmed the identity of this individual and their participation in the course.

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS62S23631773

To  
K SREEVARDHANREDDY  
PLOT9(II),SAIDWARAKAPURI,CHERLAPALLY  
TELANGANA - 508001  
PH. NO :9133469003



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**K SREEVARDHANREDDY**

for successfully completing the course

## Cloud Computing

with a consolidated score of **73** %

Online Assignments	23.75/25	Proctored Exam	49.17/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **3189**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Aug-Oct 2021  
(8 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur





Jan 24, 2022

# Swaroop Patnaik

has successfully completed

## Java Basics: Selection and Iteration

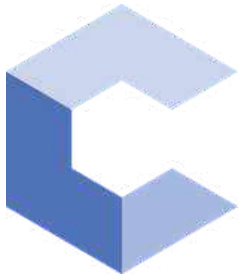
an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/TPNEN3VNE4YY](https://coursera.org/verify/TPNEN3VNE4YY)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Jan 30, 2022

# Swaroop Patnaik

has successfully completed

## Java Basic Structures: Arrays, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/LUKYDLBMUGFH](https://coursera.org/verify/LUKYDLBMUGFH)  
Coursera has confirmed the identity of this individual and their  
participation in the course.





Feb 8, 2022

# Swaroop Patnaik

has successfully completed

## Java Object Basics: Functions, Recursion, and Objects

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

COURSE  
CERTIFICATE



Verify at:  
[coursera.org/verify/JGLFZWF4DMMB](https://coursera.org/verify/JGLFZWF4DMMB)

Coursera has confirmed the identity of this individual and their participation in the course.

*Swecha*

## Certificate of Internship

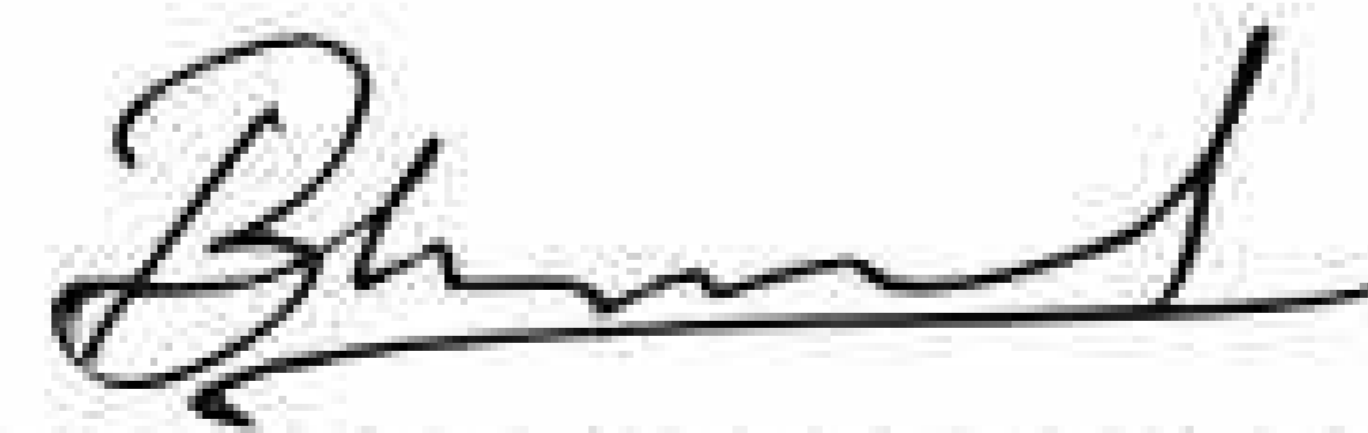
This is to certify that

**Syed Md Kashan Naiyer Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

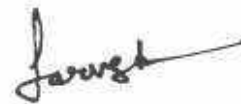
# Certificate of Training

**Varshith Reddy Ravula**

from Chaitanya Bharathi Institute of Technology has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

In the final assessment, Varshith scored 85% marks.

We wish Varshith all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-21

Certificate no. : 329773E1-389D-6E15-203C-1F1DC2A1A580

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)



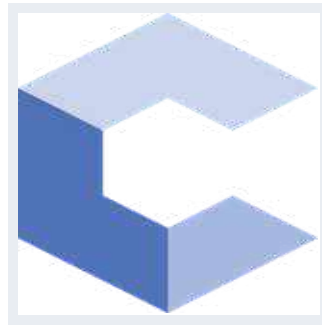
4 Courses

**Java Basics: Selection and Iteration**

**Java Basic Structures: Arrays, Strings, and Files**

**Java Object Basics: Functions, Recursion, and Objects**

**Object-Oriented Java: Inheritance and Encapsulation**



Jan 23, 2022

## **RAPELLY VIKAS SWAGATH**

has successfully completed the online, non-credit Specialization

# **Programming in Java: A Hands-on Introduction**

This specialization is intended for people without programming experience who seek to develop Java programming skills and learn about the underlying computer science concepts that will allow them to pick up other programming languages quickly. In these four courses, you will cover everything from fundamentals to object-oriented design. These topics will help prepare you to write anything from small programs to automate repetitive tasks to larger applications, giving you enough understanding of python to tackle more specialized topics such as Data Science and Artificial Intelligence.

Elise Deitrick, PhD  
VP of Product  
Codio

Patrick Ester  
Curriculum Developer  
Codio

Anh Le  
Curriculum Developer  
Codio

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:

[coursera.org/verify/specialization/DNLKEQG180P](https://coursera.org/verify/specialization/DNLKEQG180P)

180P



Sep 25, 2021

# RAPELLY VIKAS SWAGATH

has successfully completed

## Java Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/C3UGZ7XKF8EF](https://coursera.org/verify/C3UGZ7XKF8EF)  
Coursera has confirmed the identity of this individual and their participation in the course.



Sep 25, 2021

# RAPELLY VIKAS SWAGATH

has successfully completed

## Java Basic Structures: Arrays, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/YN2NV2S62LHF](https://coursera.org/verify/YN2NV2S62LHF)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Dec 5, 2021

# RAPELLY VIKAS SWAGATH

has successfully completed

## Java Object Basics: Functions, Recursion, and Objects

an online non-credit course authorized by Codio and offered through Coursera

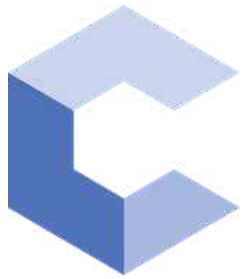
A handwritten signature in black ink, appearing to read 'Patrick Ester'.

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/NXXMD5TPV34Y](https://coursera.org/verify/NXXMD5TPV34Y)  
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 23, 2022

# RAPELLY VIKAS SWAGATH

has successfully completed

## Object-Oriented Java: Inheritance and Encapsulation

an online non-credit course authorized by Codio and offered through Coursera

A handwritten signature in black ink, appearing to read 'Patrick Ester'.

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/7AGJHG32W7W9](https://coursera.org/verify/7AGJHG32W7W9)  
Coursera has confirmed the identity of this individual and their participation in the course.

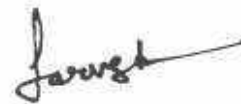


# Certificate of Training

**Maroju Nikhil**

from Chaitanya Bharathi Institute of Technology has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

We wish Maroju all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-16

Certificate no. : 1838F928-F276-873A-E98B-567440D74D7D

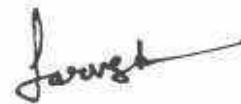
For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)

# Certificate of Training

**Veldoj Saiteja**

from Chaitanya Bharathi Institute of Technology has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

We wish Veldoj all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-16

Certificate no. : 71D88979-1A22-1012-138F-7299B2A74F7F

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)

*Swecha*

## Certificate of Internship

This is to certify that

**Sridhar Angoth**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

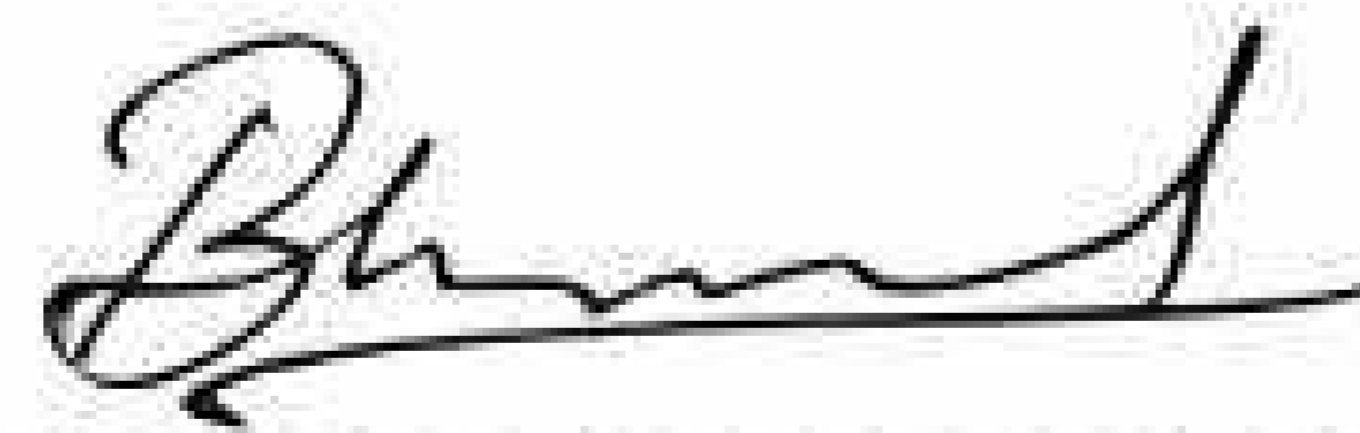
This is to certify that

**Yogitha Aratla**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032


# Certificate of Training

**Akanksha Kamatam**

from Chaitanya Barathi Institutions of Technology has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

In the final assessment, Akanksha scored 65% marks.

We wish Akanksha all the best for future endeavours.



**Sarvesh Agarwal**

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-02-04

Certificate no.: 4ED0E566-F17C-71AA-5278-F50F3A833154

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)



# Certificate of Training

**Swapna Mudavath**

from Chaitanya Bharathi Institute of Technology has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

In the final assessment, Swapna scored 50% marks.

We wish Swapna all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-29

Certificate no. : 423C2F3B-B938-249C-F477-EFEE74BE6EC4

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)



Jan 22, 2022

# Gandla Alekhya

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

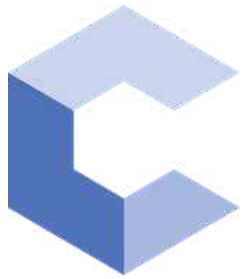
COURSE  
CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/LXGAMJYERV45](https://coursera.org/verify/LXGAMJYERV45)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



29-Jan-2022

# Gandla Alekhya

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

## COURSE CERTIFICATE



Verify at [coursera.org/verify/AHCXLTYK8M56](https://coursera.org/verify/AHCXLTYK8M56)  
Coursera has confirmed the identity of this individual and their  
participation in the course.





Jan 25, 2022

**anjum**

has successfully completed

**C++ Basics: Selection and Iteration**

an online non-credit course authorized by Codio and offered through Coursera

**COURSE  
CERTIFICATE**



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/TZBFH9C8ZRBG](https://coursera.org/verify/TZBFH9C8ZRBG)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Jan 26, 2022

# Asiya Anjum

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

### COURSE CERTIFICATE



Verify at [coursera.org/verify/UWXTXB4TJVPC](https://coursera.org/verify/UWXTXB4TJVPC)  
Coursera has confirmed the identity of this individual and their  
participation in the course.

*Swecha*

## Certificate of Internship

This is to certify that

**D. Asritha**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

  
*Swecha*

## Certificate of Internship

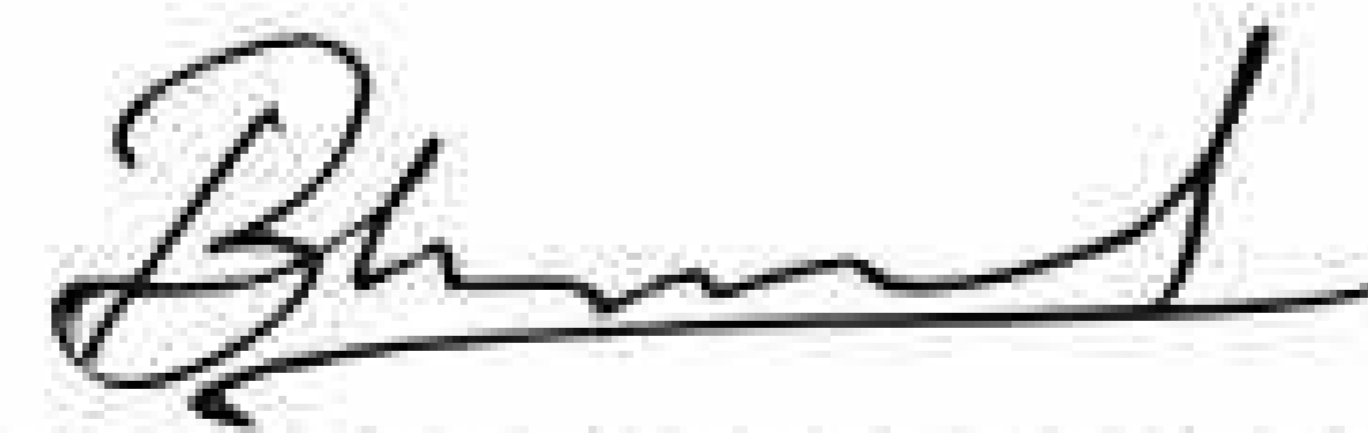
This is to certify that

**laya c Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



Nov 28, 2021

chandralekha ravikanti

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/9UUYNHQNAU](https://coursera.org/verify/9UUYNHQNAU)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Jan 26, 2022

chandralekha ravikanti

has successfully completed

**C++ Basic Structures: Vectors, Pointers, Strings,  
and Files**

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/G8ASLS9MRJGG](https://coursera.org/verify/G8ASLS9MRJGG)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Nov 21, 2021

# Veldurthi Jhahnavi

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

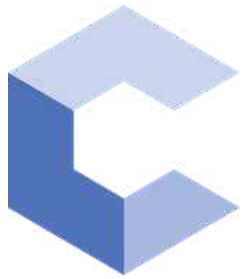
COURSE  
CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/72Z4NDQFX8VH](https://coursera.org/verify/72Z4NDQFX8VH)  
Coursera has confirmed the identity of this individual and their participation in the course.



28-Jan-2022

# Veldurthi Jhahnavi

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

### COURSE CERTIFICATE



Verify at [coursera.org/verify/LKKUNY8WQH9S](https://coursera.org/verify/LKKUNY8WQH9S)  
Coursera has confirmed the identity of this individual and their  
participation in the course.





Dec 26, 2021

# Guguloth Kiranmai

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/DGU9E9HXNW26](https://coursera.org/verify/DGU9E9HXNW26)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Jan 26, 2022

# Guguloth Kiranmai

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

## COURSE CERTIFICATE



Verify at [coursera.org/verify/HM25YM2NADG2](https://coursera.org/verify/HM25YM2NADG2)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Sep 19, 2021

# Roshini Singh

has successfully completed

## Introduction to Java

an online non-credit course authorized by LearnQuest and offered through Coursera

*Noel J. Bergman*

Noel J. Bergman

Evan Bergman

### COURSE CERTIFICATE



Verify at:  
[coursera.org/verify/ZYE35HRWEMK8](https://coursera.org/verify/ZYE35HRWEMK8)

Coursera has confirmed the identity of this individual and their participation in the course.



Oct 3, 2021

# Roshini Singh

has successfully completed

## Introduction to Object-Oriented Programming with Java

an online non-credit course authorized by LearnQuest and offered through Coursera

Evan Bergman

Noel J. Bergman

Noel J. Bergman

### COURSE CERTIFICATE



Verify at:  
[coursera.org/verify/RUV7XH3M8CVN](https://coursera.org/verify/RUV7XH3M8CVN)

Coursera has confirmed the identity of this individual and their participation in the course.



Nov 19, 2021

# Roshini Singh

has successfully completed

## Object-Oriented Hierarchies in Java

an online non-credit course authorized by LearnQuest and offered through Coursera

Evan Bergman

Noel J. Bergman

Noel J. Bergman

### COURSE CERTIFICATE



Verify at:  
[coursera.org/verify/S8T7R4TN6KCF](https://coursera.org/verify/S8T7R4TN6KCF)

Coursera has confirmed the identity of this individual and their participation in the course.

*Swecha*

## Certificate of Internship

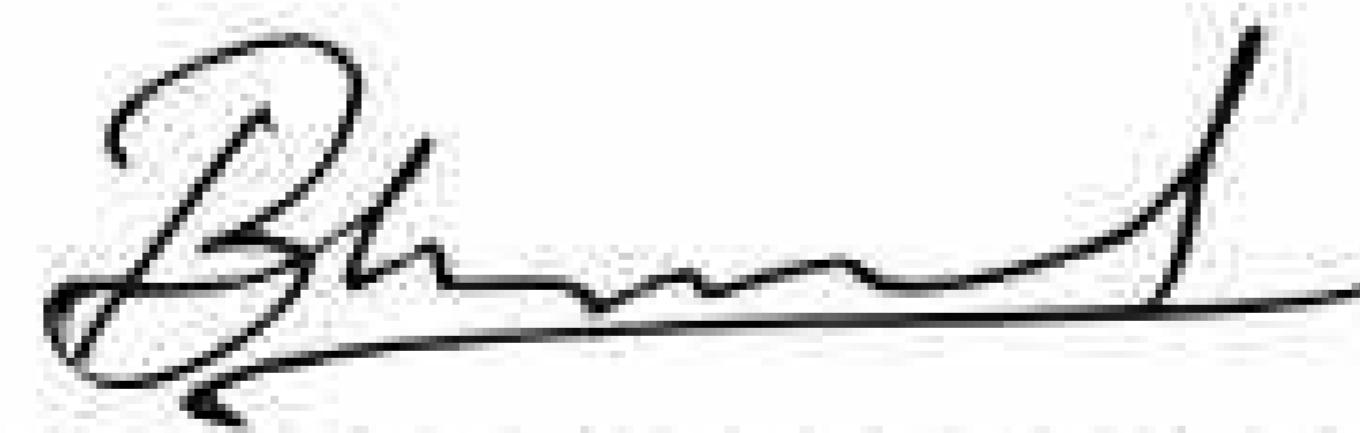
This is to certify that

**Yalla Sai Keertana**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



Jan 22, 2022

veekshah rao ponugoti

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE

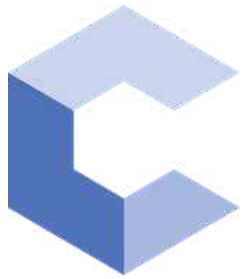


Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at:  
[coursera.org/verify/BHGFBTMDJ8AH](https://coursera.org/verify/BHGFBTMDJ8AH)

Coursera has confirmed the identity of this individual and their participation in the course.



Jan 25, 2022

veekshah rao ponugoti

has successfully completed

**C++ Basic Structures: Vectors, Pointers, Strings,  
and Files**

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

COURSE  
CERTIFICATE



Verify at:  
[coursera.org/verify/MD7RJ7XHP6CZ](https://coursera.org/verify/MD7RJ7XHP6CZ)

Coursera has confirmed the identity of this individual and their participation in the course.



*Swecha*

## Certificate of Internship

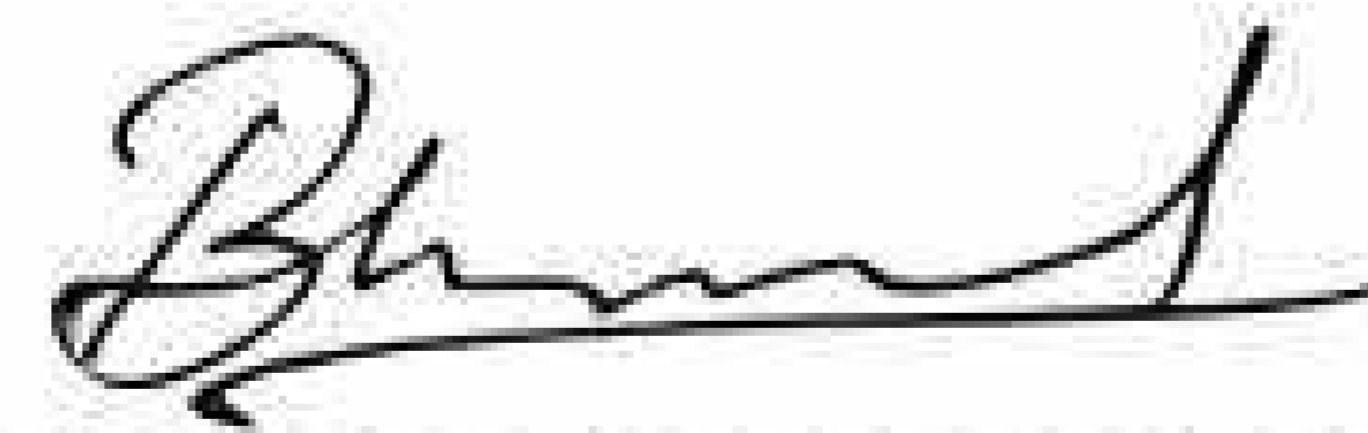
This is to certify that

**Sampriti Thummala Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

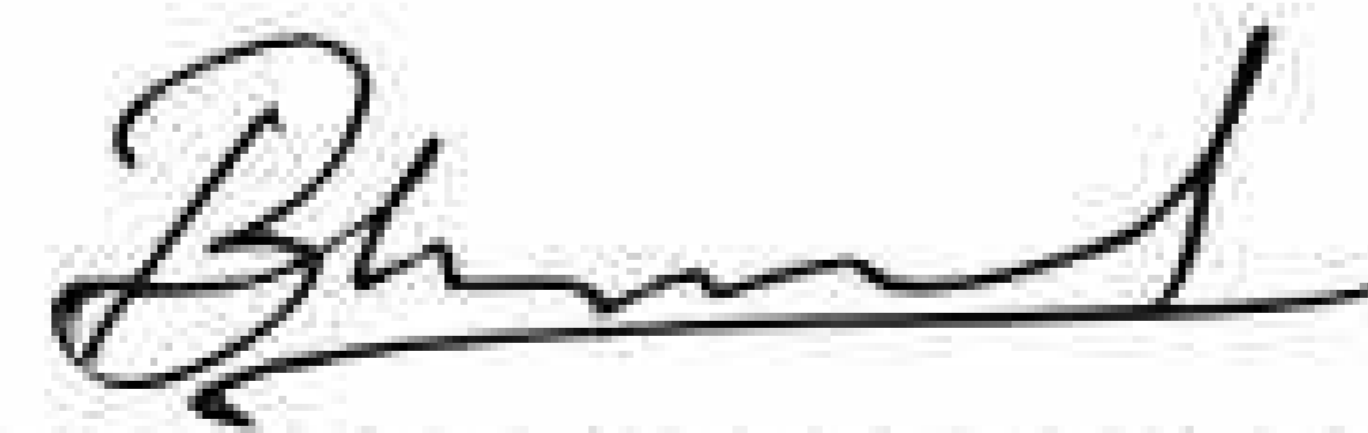
This is to certify that

**Sanvi Reddy Sama**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



Nov 19, 2021

SAPHALYA PETA

has successfully completed

Introduction to Java

an online non-credit course authorized by LearnQuest and offered through Coursera

*Noel J. Bergman*

Noel J. Bergman

Evan Bergman

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/WWTA8GKBWME9](https://coursera.org/verify/WWTA8GKBWME9)  
Coursera has confirmed the identity of this individual and their participation in the course.



Nov 20, 2021

SAPHALYA PETA

has successfully completed

Introduction to Object-Oriented Programming with Java

an online non-credit course authorized by LearnQuest and offered through Coursera

Evan Bergman

Noel J. Bergman

Noel J. Bergman

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/J53U2GMWTJXM](https://coursera.org/verify/J53U2GMWTJXM)  
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 8, 2022

**SAPHALYA PETA**

has successfully completed

**Object-Oriented Hierarchies in Java**

an online non-credit course authorized by LearnQuest and offered through Coursera

Evan Bergman

*Noel J. Bergman*

Noel J. Bergman

**COURSE  
CERTIFICATE**



Verify at [coursera.org/verify/WWDVSG2SR8LW](https://coursera.org/verify/WWDVSG2SR8LW)  
Coursera has confirmed the identity of this individual and their participation in the course.



Oct 19, 2021

# Shreya Koka

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

### COURSE CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/HHZ8NGY7U5V](https://coursera.org/verify/HHZ8NGY7U5V)  
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 19, 2022

# Shreya Koka

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

## COURSE CERTIFICATE



Verify at [coursera.org/verify/9PK8XUWLCE9M](https://coursera.org/verify/9PK8XUWLCE9M)  
Coursera has confirmed the identity of this individual and their  
participation in the course.

*Swecha*

## Certificate of Internship

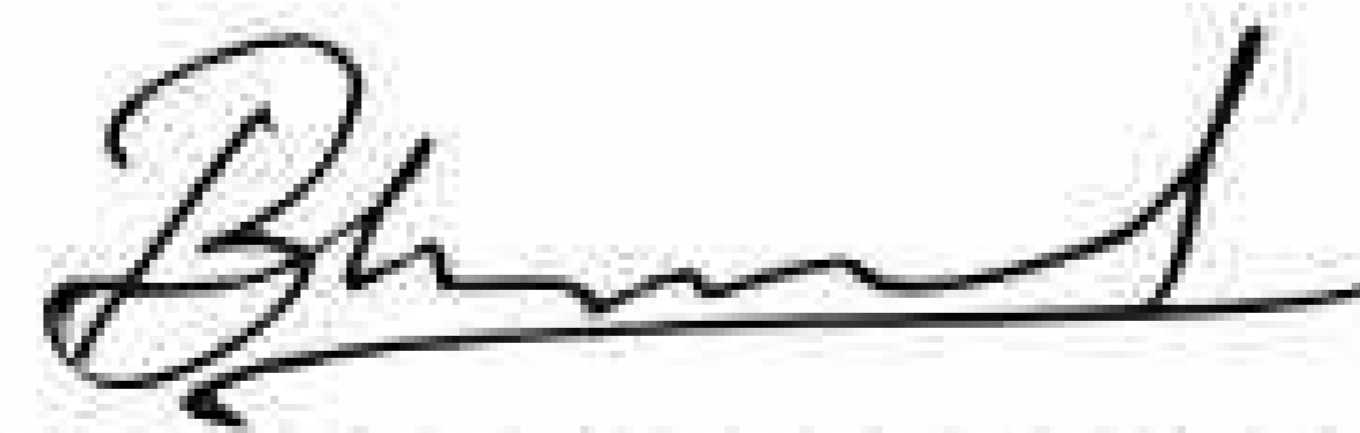
This is to certify that

**Shreya Sriram Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



*Swecha*

## Certificate of Internship

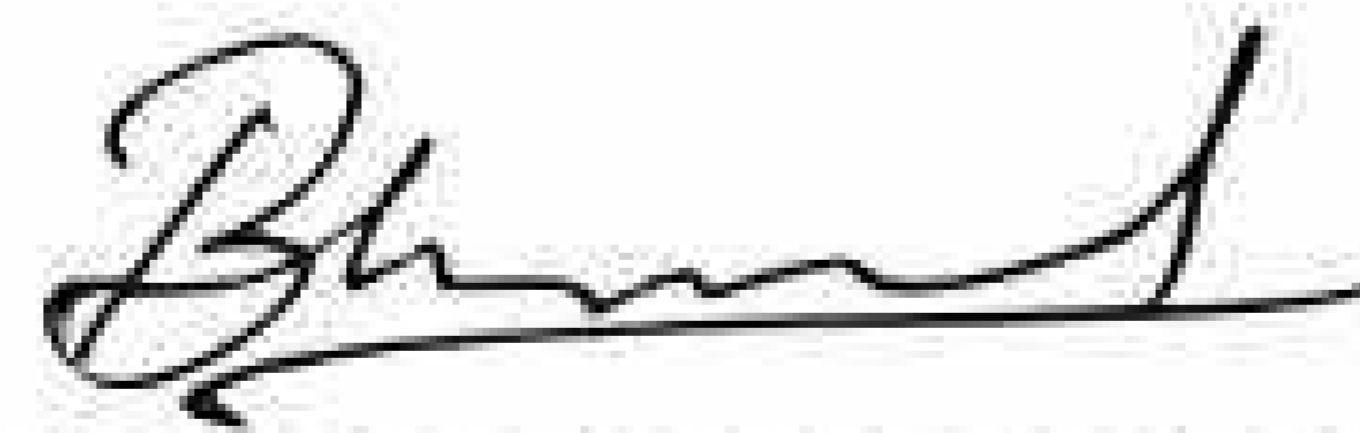
This is to certify that

**Srihitha Voruganti Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



Feb 13, 2022

# PENUMAKA SUNSHINE

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at:  
[coursera.org/verify/4VKJ9EUKX7DT](https://coursera.org/verify/4VKJ9EUKX7DT)

Coursera has confirmed the identity of this individual and their participation in the course.



Feb 14, 2022

# PENUMAKA SUNSHINE

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Handwritten signature of Anh Le in black ink.

Anh Le  
Curriculum Developer  
Codio

Handwritten signature of Elise Deitrick in black ink.

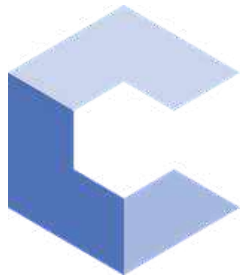
Elise Deitrick, PhD  
VP of Product  
Codio

## COURSE CERTIFICATE



Verify at:  
[coursera.org/verify/BDH9VHWEQ5Z9](https://coursera.org/verify/BDH9VHWEQ5Z9)

Coursera has confirmed the identity of this individual and their participation in the course.



Feb 8, 2022

# Varshika Sunkari

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at:  
[coursera.org/verify/5ATFP9986GY4](https://coursera.org/verify/5ATFP9986GY4)

Coursera has confirmed the identity of this individual and their participation in the course.



Jan 12, 2022

Vineela Bellamkonda

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/RQH2KQ4JS7G2](https://coursera.org/verify/RQH2KQ4JS7G2)  
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 22, 2022

# Vineela Bellamkonda

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

### COURSE CERTIFICATE



Verify at [coursera.org/verify/4W3AZ7YQB3HP](https://coursera.org/verify/4W3AZ7YQB3HP)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Sep 26, 2021

# Yashasvi chanda

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

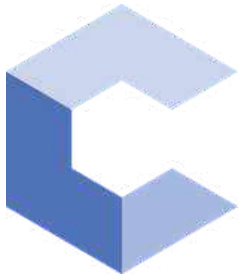
COURSE  
CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/USZEEFR4MR3F](https://coursera.org/verify/USZEEFR4MR3F)  
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 22, 2022

# Yashasvi chanda

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

### COURSE CERTIFICATE



Verify at [coursera.org/verify/TQPCA2LEB7GU](https://coursera.org/verify/TQPCA2LEB7GU)  
Coursera has confirmed the identity of this individual and their  
participation in the course.





Sep 17, 2021

# MAROJU AAKASH

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

### COURSE CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at:  
[coursera.org/verify/89M695AWADYT](https://coursera.org/verify/89M695AWADYT)

Coursera has confirmed the identity of this individual and their participation in the course.



Oct 15, 2021

# MAROJU AAKASH

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

## COURSE CERTIFICATE



Verify at [coursera.org/verify/ZUSGK7TFYSQ9](https://coursera.org/verify/ZUSGK7TFYSQ9)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Nov 27, 2021

# MAROJU AAKASH

has successfully completed

## C++ Object Basics: Functions, Recursion, and Objects

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

## COURSE CERTIFICATE



Verify at [coursera.org/verify/Z86YLE2THVUU](https://coursera.org/verify/Z86YLE2THVUU)  
Coursera has confirmed the identity of this individual and their participation in the course.



Feb 11, 2022

# MAROJU AAKASH

has successfully completed

## Object-Oriented C++: Inheritance and Encapsulation

an online non-credit course authorized by Codio and offered through Coursera

Kevin Noelsaint, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

### COURSE CERTIFICATE



Verify at:  
[coursera.org/verify/KYRH9M4BMHN2](https://coursera.org/verify/KYRH9M4BMHN2)

Coursera has confirmed the identity of this individual and their participation in the course.

*Swecha*

## Certificate of Internship

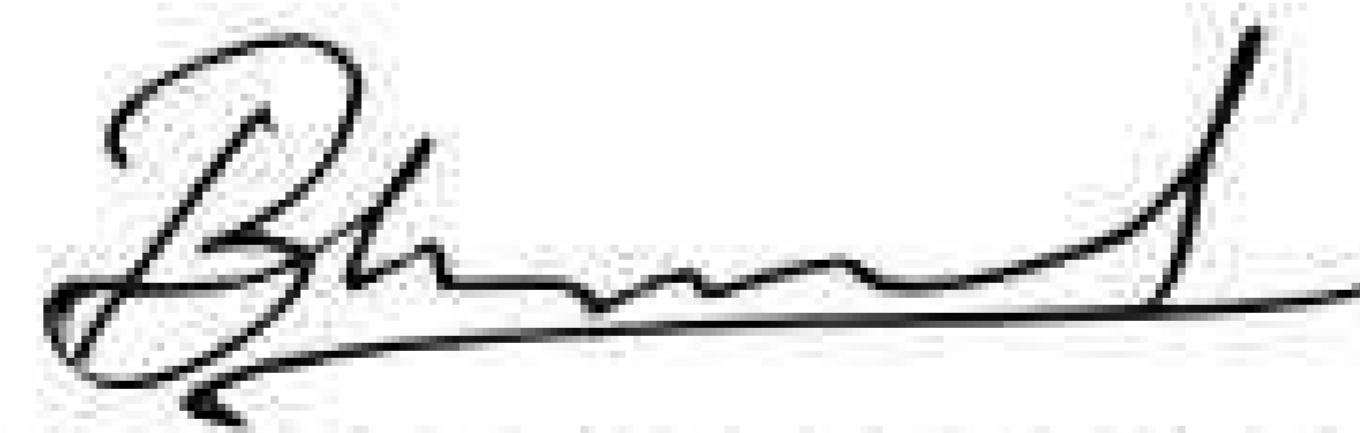
This is to certify that

**Abhi Ram Pendyala**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

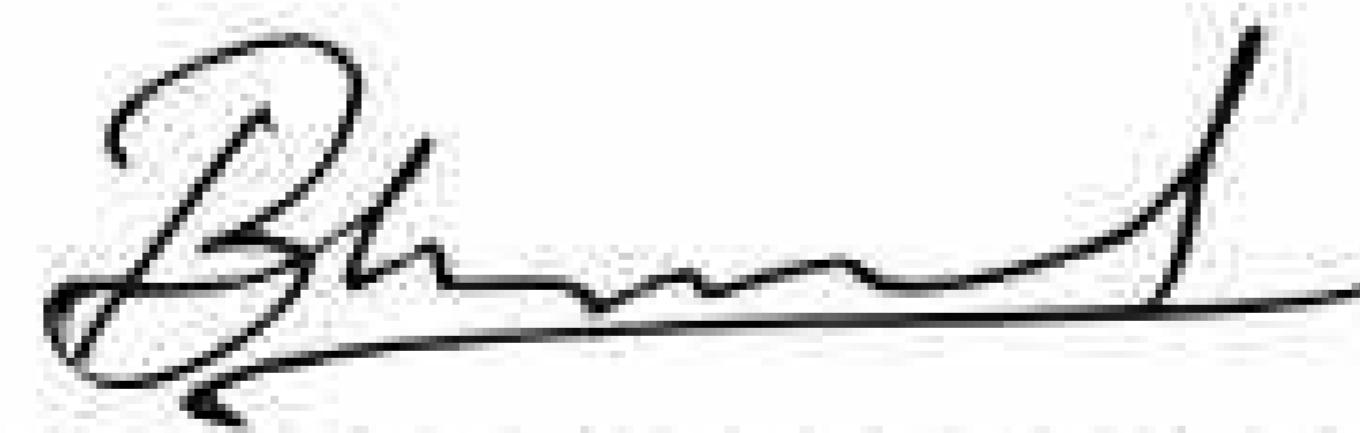
This is to certify that

**Achyuth Reddy Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

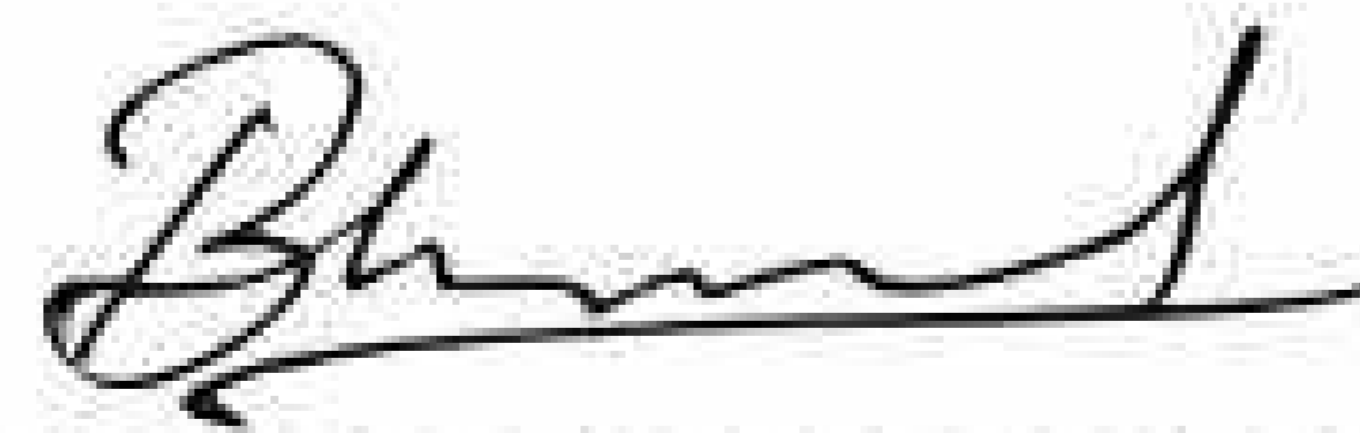
This is to certify that

**AKASH KASAM**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

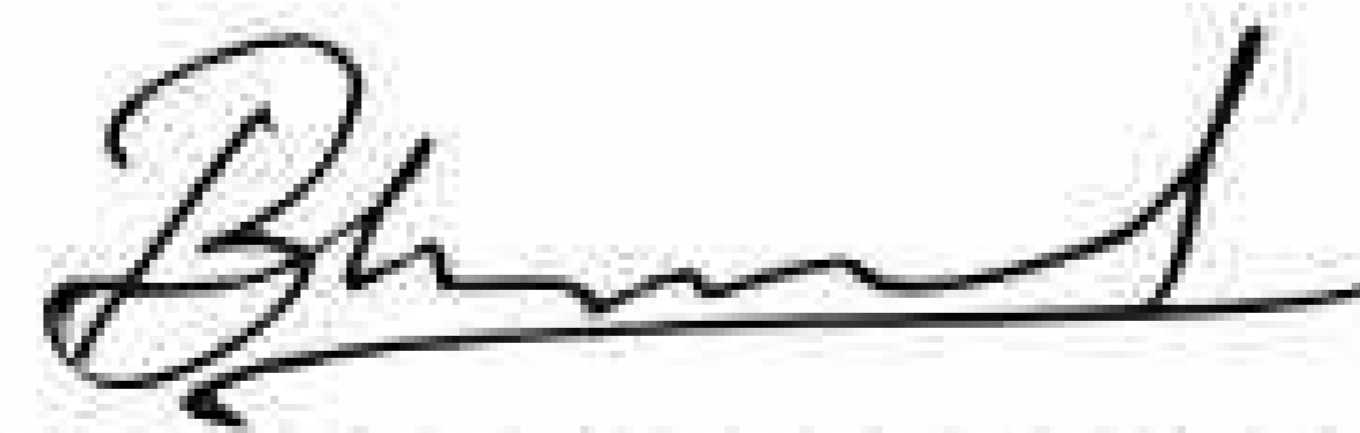
This is to certify that

**konda aniketh reddy**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032





Oct 16, 2021

# Bharath Varala

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE



Handwritten signature of Anh Le in black ink.

Anh Le  
Curriculum Developer  
Codio

Handwritten signature of Elise Deitrick in black ink.

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/SQUSM65JFFHY](https://coursera.org/verify/SQUSM65JFFHY)  
Coursera has confirmed the identity of this individual and their participation in the course.



Dec 5, 2021

# Bharath Varala

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

## COURSE CERTIFICATE



Verify at [coursera.org/verify/WZFCPBV8JEE7](https://coursera.org/verify/WZFCPBV8JEE7)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Sep 16, 2021

# Somula Bala Chandra Shekar

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

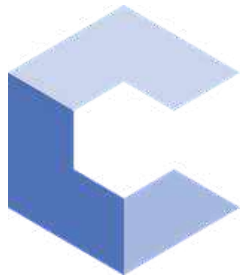
Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/JR5RYAJTYCPD](https://coursera.org/verify/JR5RYAJTYCPD)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Sep 15, 2021

# Somula Bala Chandra Shekar

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE



A handwritten signature in black ink, reading 'Anh Le'.

Anh Le  
Curriculum Developer  
Codio

A handwritten signature in black ink, reading 'Elise Deitrick'.

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/FYMAGP3GNJRL](https://coursera.org/verify/FYMAGP3GNJRL)  
Coursera has confirmed the identity of this individual and their participation in the course.

*Swecha*

## Certificate of Internship

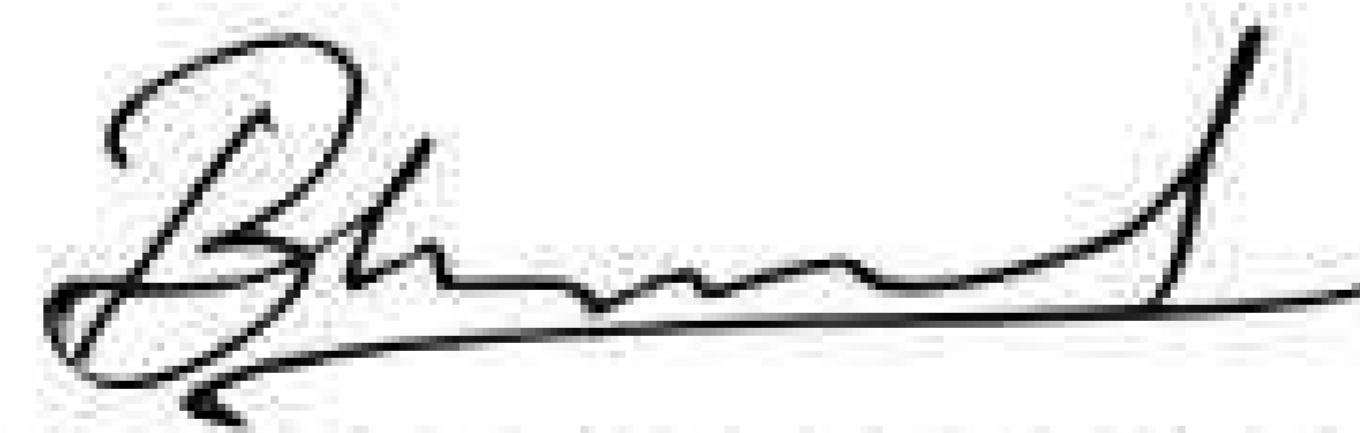
This is to certify that

**Kandula Dinesh**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



Feb 11, 2022

# Kondapally Jagan Anirudh vyas

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at:  
[coursera.org/verify/YEB8W9ACQPG3](https://coursera.org/verify/YEB8W9ACQPG3)

Coursera has confirmed the identity of this individual and their participation in the course.



Mar 20, 2022

# Kondapally Jagan Anirudh vyas

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

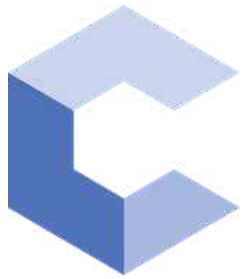
Elise Deitrick, PhD  
VP of Product  
Codio

COURSE  
CERTIFICATE



Verify at:  
[coursera.org/verify/2JR2RDNUWX2M](https://coursera.org/verify/2JR2RDNUWX2M)

Coursera has confirmed the identity of this individual and their participation in the course.



Sep 4, 2021

# Komal Adithya Reddy

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

### COURSE CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/6P6NPDSSC7DU](https://coursera.org/verify/6P6NPDSSC7DU)  
Coursera has confirmed the identity of this individual and their participation in the course.





Sep 20, 2021

# Komal Adithya Reddy

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/445QVZPRZ4PB](https://coursera.org/verify/445QVZPRZ4PB)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Sep 22, 2021

# Mohammad Sohail

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

### COURSE CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/2CSYG3CQ5R5D](https://coursera.org/verify/2CSYG3CQ5R5D)  
Coursera has confirmed the identity of this individual and their participation in the course.



Oct 31, 2021

# Mohammad Sohail

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

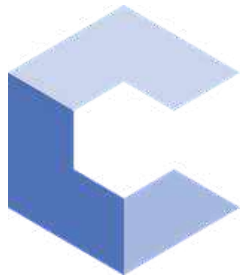
Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

## COURSE CERTIFICATE



Verify at [coursera.org/verify/SEDPH4YSLH83](https://coursera.org/verify/SEDPH4YSLH83)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Sep 15, 2021

# Naga Sai Vivek Kasa

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at:  
[coursera.org/verify/33JEUQYX9EB3](https://coursera.org/verify/33JEUQYX9EB3)

Coursera has confirmed the identity of this individual and their participation in the course.



Oct 7, 2021

# Naga Sai Vivek Kasa

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

## COURSE CERTIFICATE



Verify at:  
[coursera.org/verify/NBZMP55583NY](https://coursera.org/verify/NBZMP55583NY)

Coursera has confirmed the identity of this individual and their participation in the course.

*Swecha*

## Certificate of Internship

This is to certify that

**naren reddy B**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



Nov 22, 2021

# A Nithin

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

### COURSE CERTIFICATE



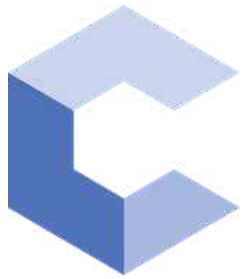
Handwritten signature of Anh Le in black ink.

Anh Le  
Curriculum Developer  
Codio

Handwritten signature of Elise Deitrick in black ink.

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/A3M2GK29PFZS](https://coursera.org/verify/A3M2GK29PFZS)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Feb 2, 2022

# A Nithin

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

## COURSE CERTIFICATE



Verify at:  
[coursera.org/verify/EFVAGW33YNJ](https://coursera.org/verify/EFVAGW33YNJ)

Coursera has confirmed the identity of this individual and their participation in the course.



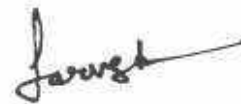
# Certificate of Training

**NITHIN JERIPOTHULA**

from Chaitanya Bharathi Institute of Technology has successfully completed a 6-week online training on **Programming with Python**. The training consisted of Introduction to Python, Using Variables in Python, Basics of Programming in Python, Principles of Object-oriented Programming (OOP), Connecting to SQLite Database, Developing a GUI with PyQt, Application of Python in Various Disciplines, and The Final Project modules.

In the final assessment, NITHIN scored 73% marks.

We wish NITHIN all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-02-07      Certificate no. : 0251C32C-DEC4-D49F-2944-61824DA8AA04

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)



Jan 15, 2022

# Rustumpet Nitin Kumar

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE



Handwritten signature of Anh Le in black ink.

Anh Le  
Curriculum Developer  
Codio

Handwritten signature of Elise Deitrick in black ink.

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/GVQN62QDTQEM](https://coursera.org/verify/GVQN62QDTQEM)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Jan 30, 2022

# Rustumpet Nitin Kumar

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/G65TUQ3EHC8T](https://coursera.org/verify/G65TUQ3EHC8T)  
Coursera has confirmed the identity of this individual and their  
participation in the course.

*Swecha*

## Certificate of Internship

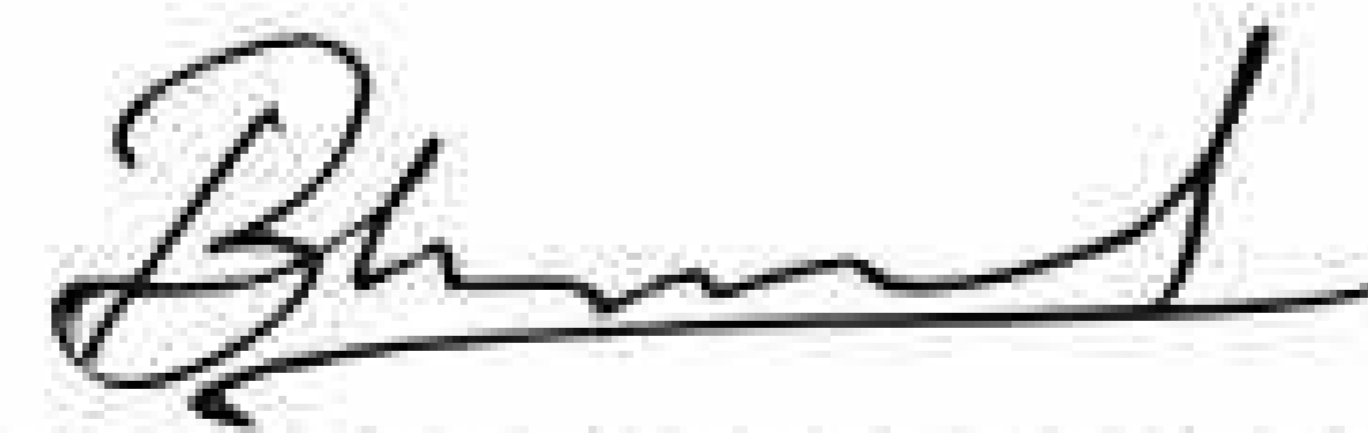
This is to certify that

**Prahas Reddy**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



Nov 18, 2021

# Raghav Gupta

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

### COURSE CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/RNZWF9ZU2EED](https://coursera.org/verify/RNZWF9ZU2EED)  
Coursera has confirmed the identity of this individual and their participation in the course.



Dec 8, 2021

# Raghav Gupta

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

## COURSE CERTIFICATE



Verify at [coursera.org/verify/GCCGBCE3UJ7Z](https://coursera.org/verify/GCCGBCE3UJ7Z)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Nov 10, 2021

**YELA RAHUL**

has successfully completed

**C++ Basics: Selection and Iteration**

an online non-credit course authorized by Codio and offered through Coursera

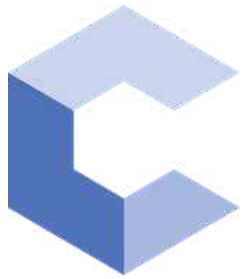
**COURSE  
CERTIFICATE**



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/MUM2K8GRSR6Y](https://coursera.org/verify/MUM2K8GRSR6Y)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Dec 11, 2021

**YELA RAHUL**

has successfully completed

**C++ Basic Structures: Vectors, Pointers, Strings,  
and Files**

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

**COURSE  
CERTIFICATE**



Verify at [coursera.org/verify/9PE4NTJCQFQ7](https://coursera.org/verify/9PE4NTJCQFQ7)  
Coursera has confirmed the identity of this individual and their  
participation in the course.





Oct 17, 2021

# Rayan Ahmed

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE



Handwritten signature of Anh Le.

Anh Le  
Curriculum Developer  
Codio

Handwritten signature of Elise Deitrick.

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at:  
[coursera.org/verify/695NNMXERF2D](https://coursera.org/verify/695NNMXERF2D)

Coursera has confirmed the identity of this individual and their participation in the course.



Oct 18, 2021

# Rayan Ahmed

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

## COURSE CERTIFICATE



Verify at:  
[coursera.org/verify/35YUN8J9LDV9](https://coursera.org/verify/35YUN8J9LDV9)

Coursera has confirmed the identity of this individual and their participation in the course.



Oct 14, 2021

# Regella Sai Karthik

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at:  
[coursera.org/verify/75K7GZK8LBVL](https://coursera.org/verify/75K7GZK8LBVL)

Coursera has confirmed the identity of this individual and their participation in the course.



Dec 26, 2021

# Regella Sai Karthik

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Handwritten signature of Anh Le in black ink.

Anh Le  
Curriculum Developer  
Codio

Handwritten signature of Elise Deitrick in black ink.

Elise Deitrick, PhD  
VP of Product  
Codio

COURSE  
CERTIFICATE



Verify at:  
[coursera.org/verify/3E8YR73F7V48](https://coursera.org/verify/3E8YR73F7V48)

Coursera has confirmed the identity of this individual and their participation in the course.

*Swecha*

## Certificate of Internship

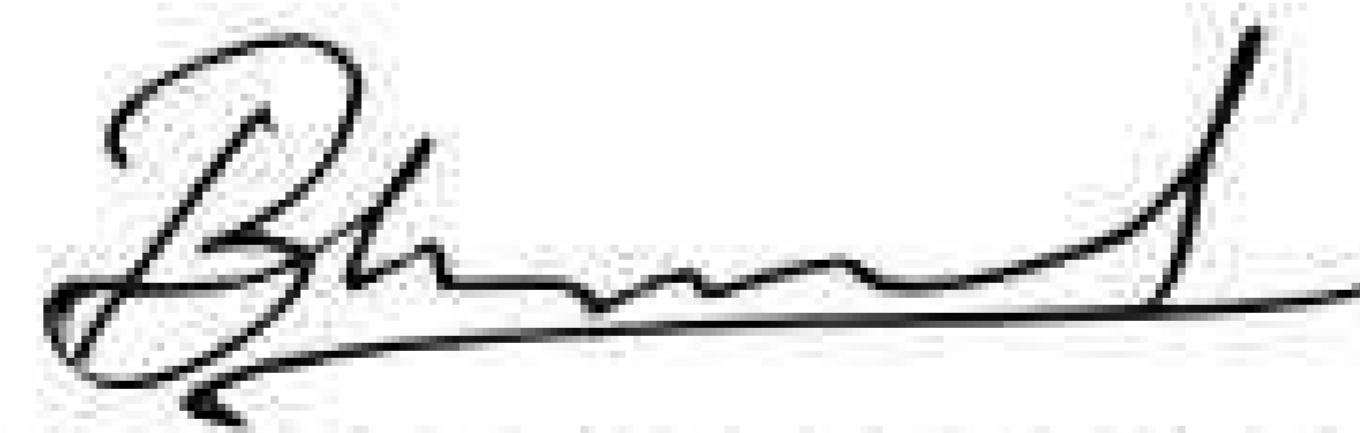
This is to certify that

**Sai Pranay Samanthakurthi**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

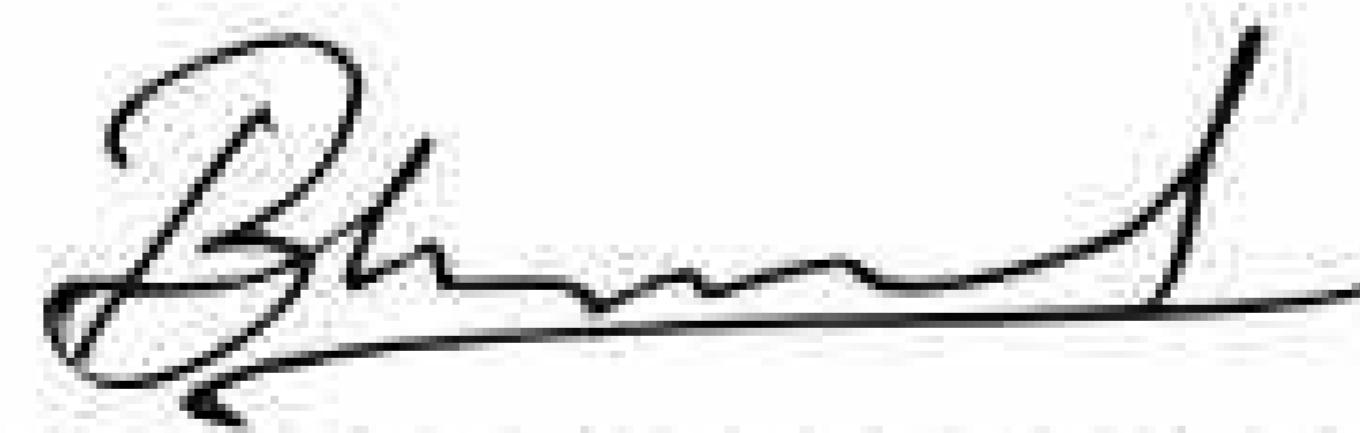
This is to certify that

**SAI TEJA MAREPALLY**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

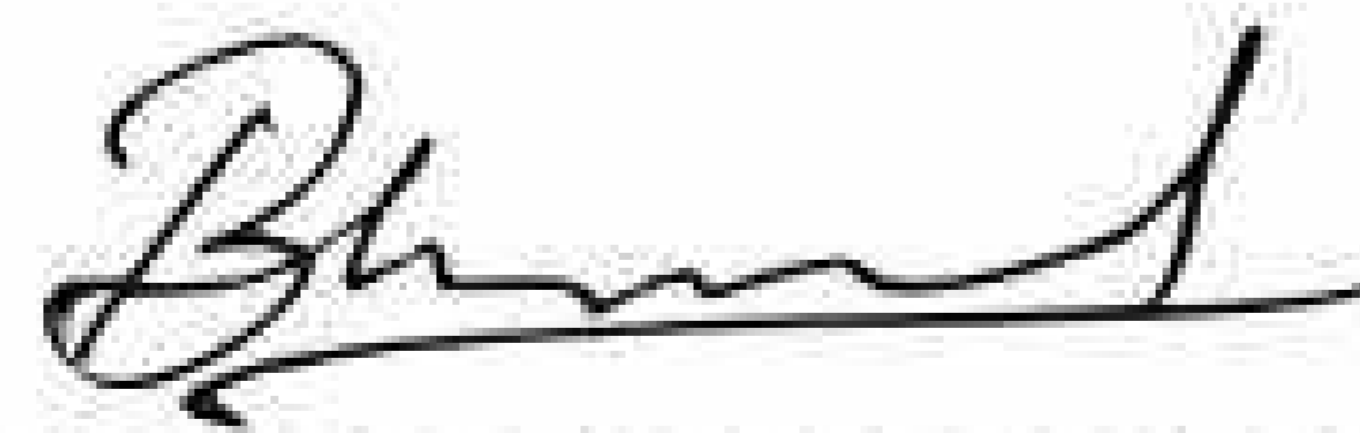
This is to certify that

**Sriram Chagarlamudi**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

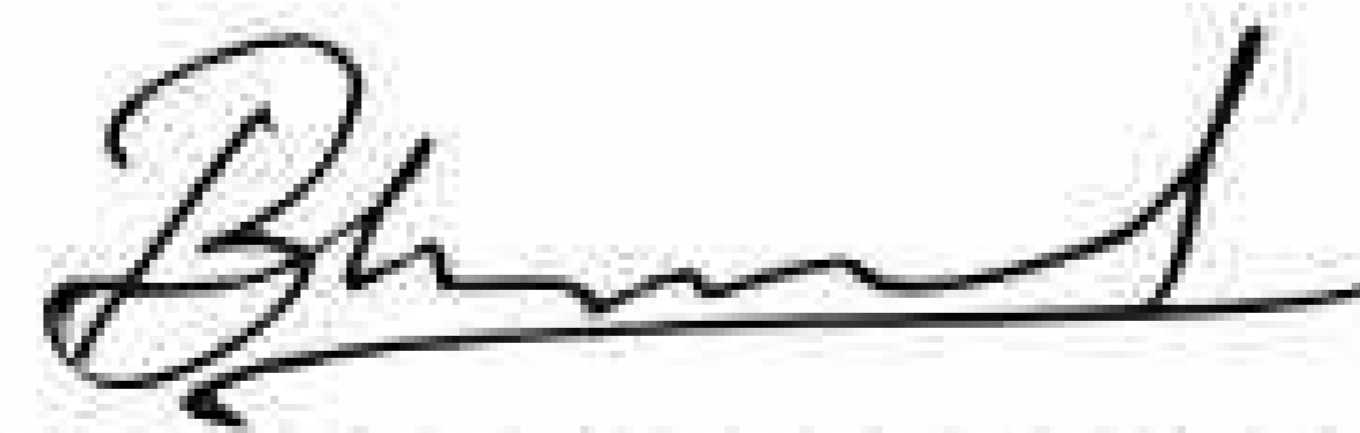
This is to certify that

**SRITEJA G Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032





Dec 23, 2021

# Velpula Sujith Kumar

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/9LEWASRTLLAQ](https://coursera.org/verify/9LEWASRTLLAQ)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Jan 25, 2022

# Velpula Sujith Kumar

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/DR6B4BNNU9T3](https://coursera.org/verify/DR6B4BNNU9T3)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Sep 28, 2021

# T SUSHANTH REDDY

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

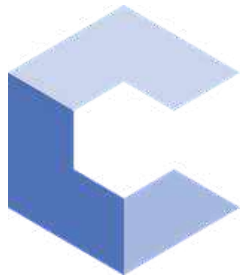
### COURSE CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/6HVGKPMUKLXT](https://coursera.org/verify/6HVGKPMUKLXT)  
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 23, 2022

**T SUSHANTH REDDY**

has successfully completed

**C++ Basic Structures: Vectors, Pointers, Strings,  
and Files**

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

**COURSE  
CERTIFICATE**



Verify at:  
[coursera.org/verify/HS7CRB6TN73B](https://coursera.org/verify/HS7CRB6TN73B)

Coursera has confirmed the identity of this individual and their participation in the course.

*Swecha*

## Certificate of Internship

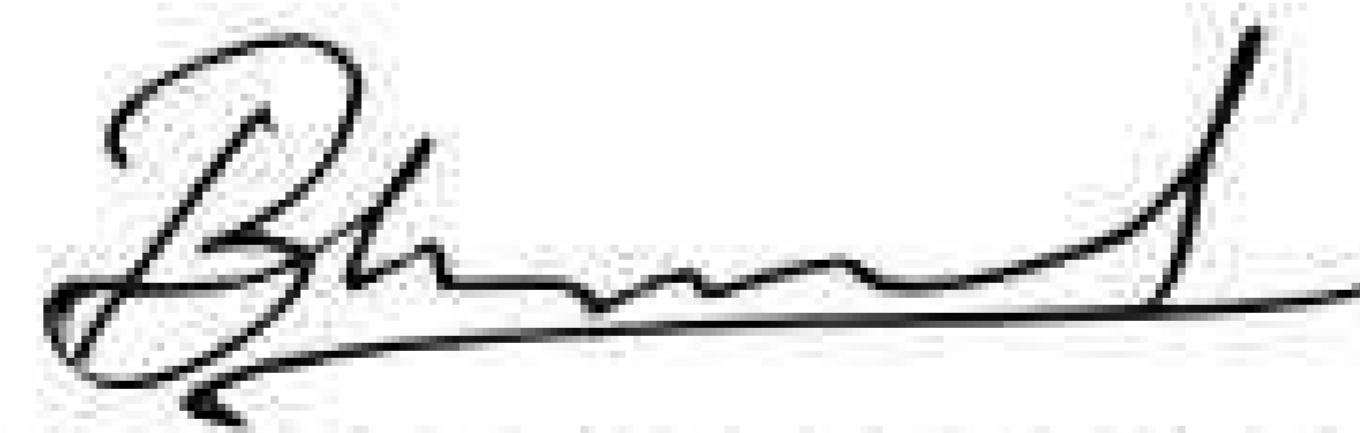
This is to certify that

**TEJA SAI CHENNA MALLESWAR RAO JAMPANI**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

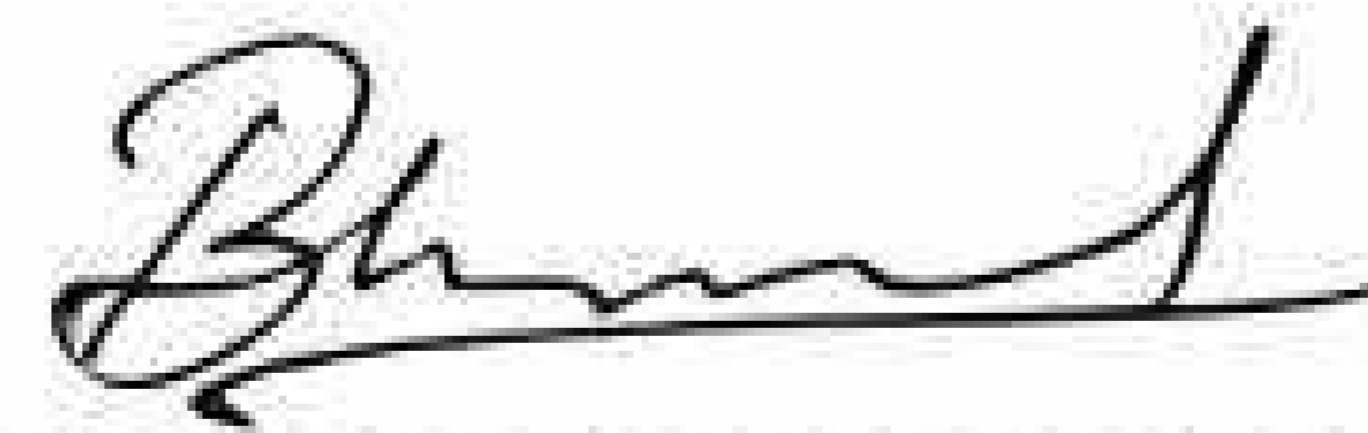
This is to certify that

**Uday Kumar Reddy Sama**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

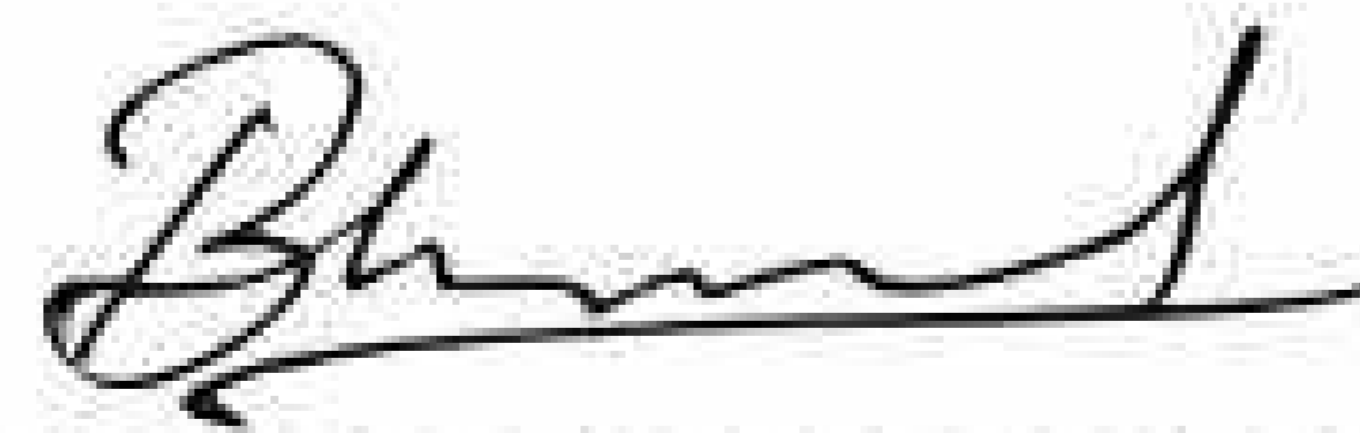
This is to certify that

**Ch Venkata Koti Reddy Cohort6**

from

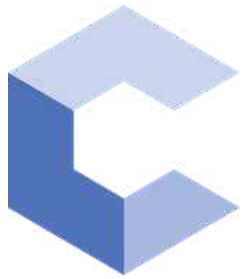
**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



Jan 22, 2022

# Vijay Vardhan Reddy Nandikonda

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/EY5V9ZH2PB2](https://coursera.org/verify/EY5V9ZH2PB2)  
Coursera has confirmed the identity of this individual and their  
participation in the course.





Feb 6, 2022

# Vijay Vardhan Reddy Nandikonda

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

COURSE  
CERTIFICATE



Verify at:  
[coursera.org/verify/8RRCPVN4BLBV](https://coursera.org/verify/8RRCPVN4BLBV)

Coursera has confirmed the identity of this individual and their participation in the course.



Jan 1, 2022

# Gourabattuni Vijaya Venkata Sai

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/U8R6AQ92QAYP](https://coursera.org/verify/U8R6AQ92QAYP)  
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 1, 2022

# Gourabattuni Vijaya Venkata Sai

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/QVQRVKMPUMZG](https://coursera.org/verify/QVQRVKMPUMZG)  
Coursera has confirmed the identity of this individual and their participation in the course.

*Swecha*

## Certificate of Internship

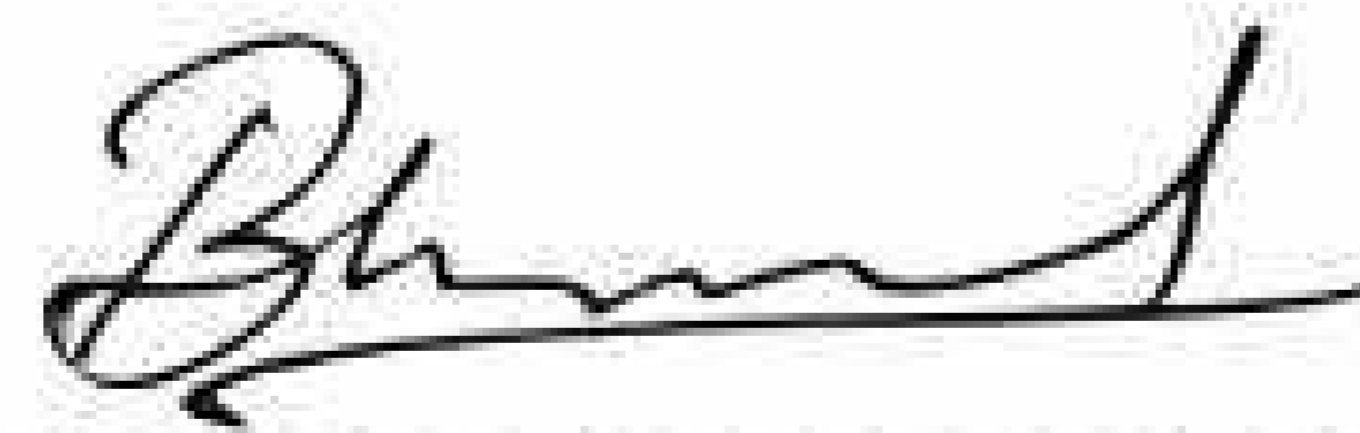
This is to certify that

**Virat Karthikeya Koramati Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS62S13633512

To  
VIRAT KARTHIKEYA KORAMATI  
8-2-603/1/12, RATHNA NILAYA  
ROAD NO 10, BANJARA HILLS  
HYDERABAD  
TELANGANA - 500034  
PH. NO :9912444555



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**VIRAT KARTHIKEYA KORAMATI**

for successfully completing the course

**Cloud Computing**

with a consolidated score of **62** %

Online Assignments	23.54/25	Proctored Exam	38.54/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **3189**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Aug-Oct 2021  
(8 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



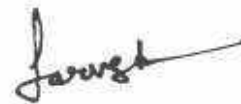
# Certificate of Training

**Patcha Kiran Deep**

from Chaitanya Bharathi Institute of Technology has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

In the final assessment, Patcha scored 83% marks.

We wish Patcha all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-16

Certificate no. : 9A47D76C-2740-434C-7E22-EB90FF95EF64

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)



*Swecha*

## Certificate of Internship

This is to certify that

**Ashok Bommena**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

## **ABSTRACT :**

The quiz game is designed to increase learning by requiring students to write a multiple-choice question on each reading assignment and explain why each response is correct or not. To test the game's effects, one developmental psychology class wrote questions with explanations of each response, whereas another class did not write questions. Both classes took pop quizzes composed of the 10 best questions the experimental class wrote. If more than half of the experimental class missed a question, the question written received bonus points. The experimental class had significantly higher quiz scores than the control class, even when grade point averages were statistically controlled. The questions' formal correctness predicted quiz scores, but their conceptual quality did not. Perhaps explaining each response elaborated the experimental students' conceptual network, resulting in improved quiz performance.



# CONTENTS :

S No.	TOPIC	Page No.
1.	INTRODUCTION	3
2.	AIM	3
3.	OBJECTIVE	3
4.	EXISTING SYSTEM	3
5.	METHODOLOGY	4
6.	SPECIFICATIONS	4
7.	PROJECT DESIGN	5
8.	SOURCE CODE	8
9.	CONCLUSION	20
10.	FUTURE ENHANCEMENT	20
11.	REFERENCES	20

## **1.INTRODUCTION :**

The 'Quiz Application' project will be developed to overcome the time consuming problem of manual system. Apart from that in current system, checking the answer sheets after taking test, waste the examiners time, so this application will check the correct answer and save the examiner time and carry the examination in an effective manner. The users which are use this system don't need to high computing knowledge and also system will inform them while entering invalid data.

## **2.AIM :**

The aim of this project is to computerized the existing manual system and help the examiners to save their valuable time and important data. Apart from this, data which are exist in this system, will exist for long period of time and will be easy accessible. This project helps the examiners to manage their services in a good way and provide a better service to their users.

## **3.OBJECTIVE :**

The main objective of the project is to make online exams instead of offline exams. This saves time and due to source code added to that, automatically it gives marks after completing the exam. In case of manual exams, teachers should correct the papers, which leads to lots of burden. So, this is a better practise to write on exams.

- To create an appropriate platform for best managing of MCQ test;
- To overcome the time consuming issues and taking MCQ tests;
- To release the marks of the test taker as soon as possible;
- To manage the information of different tests.

## **4.EXISTING SYSTEM :**

There are various quiz applications exist in the internet with different criteria. Each of the existing applications has their own goodness and problems. In this quiz application which is designed and implemented in JSP based we try to overcome the existing problems with following features:

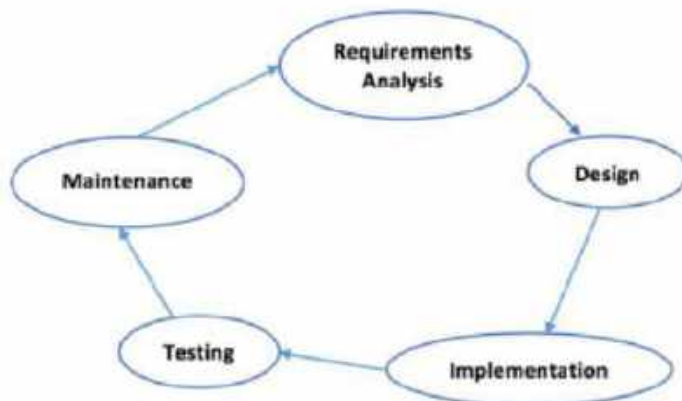
- Remove source confuse issue;
- Better management;
- Connection to database for better storing of data;

- Better frontend management;
- Better backend management;
- Try to decrease error issuer during runtime.

## 5.METHODOLOGY :

The methodology of developing of project will be a step-by-step sequence to design, develop and deliver the application. In software engineering this methodology called 'waterfall model' which one portion of work follows after another in a linear sequence. Following steps will be followed in this methodology:

- Initiation (Requirement Specification);
- Planning and design;
- Execution (construction and coding);
- Validation (Testing);
- Closure (Installation and Maintenance).



## 6.SPECIFICATIONS :

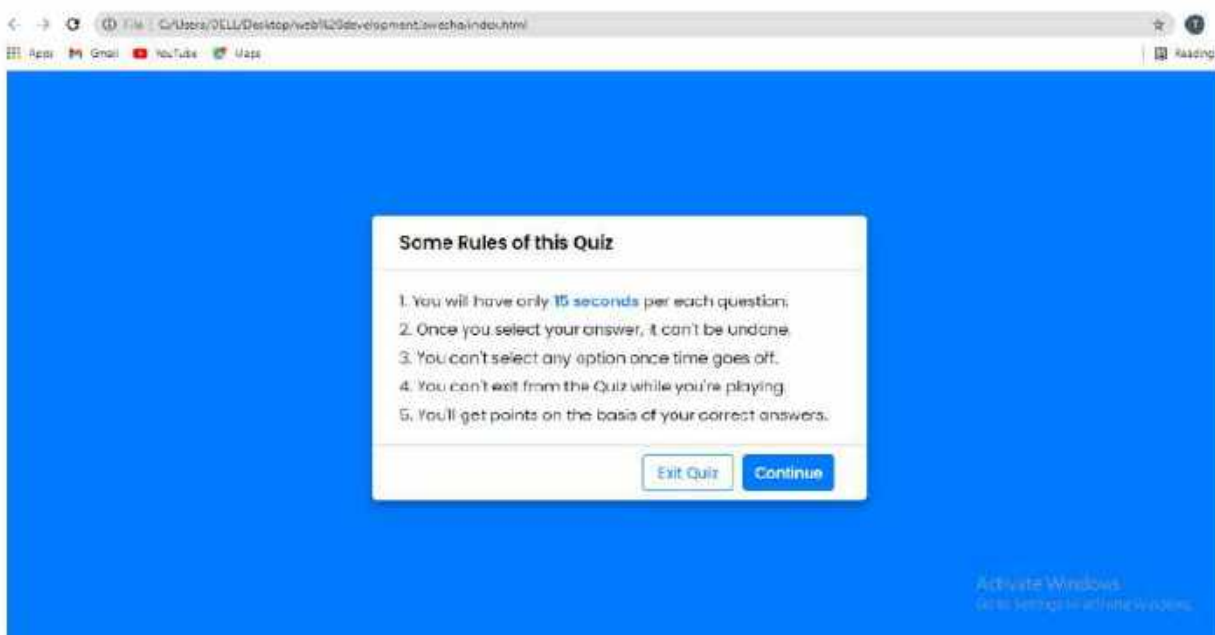
-To play Quiz Time you will need a minimum CPU equivalent to an Intel Core 2 Duo Q6867. Whereas, an Intel Core i3-2340UE is recommended in order to run it. Quiz Time system requirements state that you will need **at least 1 GB of RAM**. Additionally, the game developers recommend somewhere around 2 GB of RAM in your system.

# 7.PROJECT DESIGN :

For designing and implementing of Online Quiz application we used HTML, CSS, JavaScript. Following pages have been designed using HTML, CSS and JavaScript to handle the defined objective of this project.

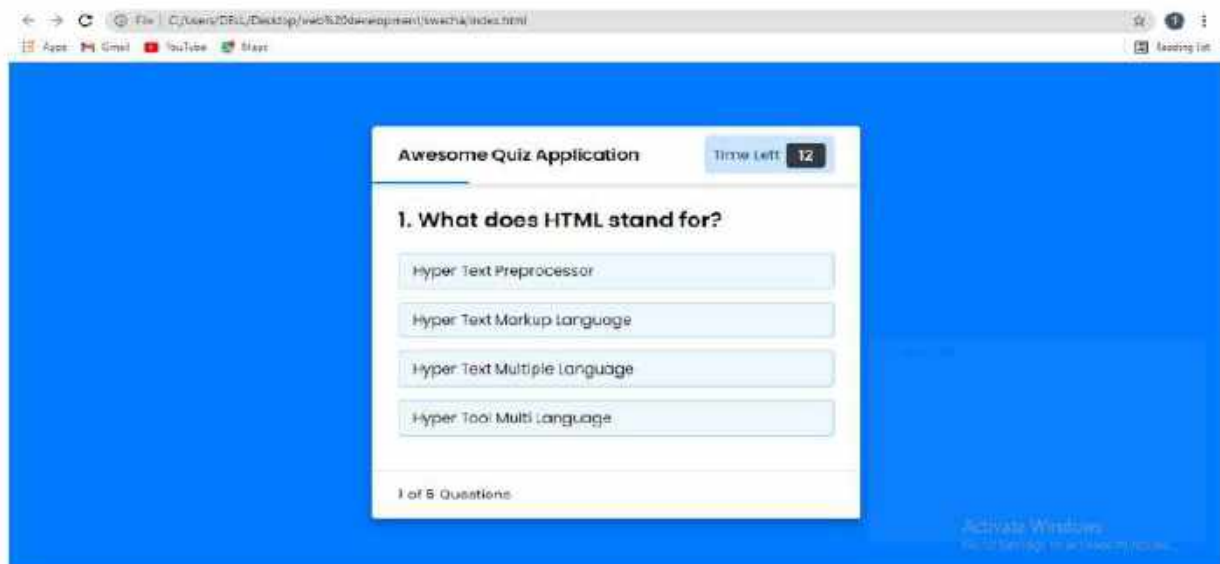
## 1. INDEX :

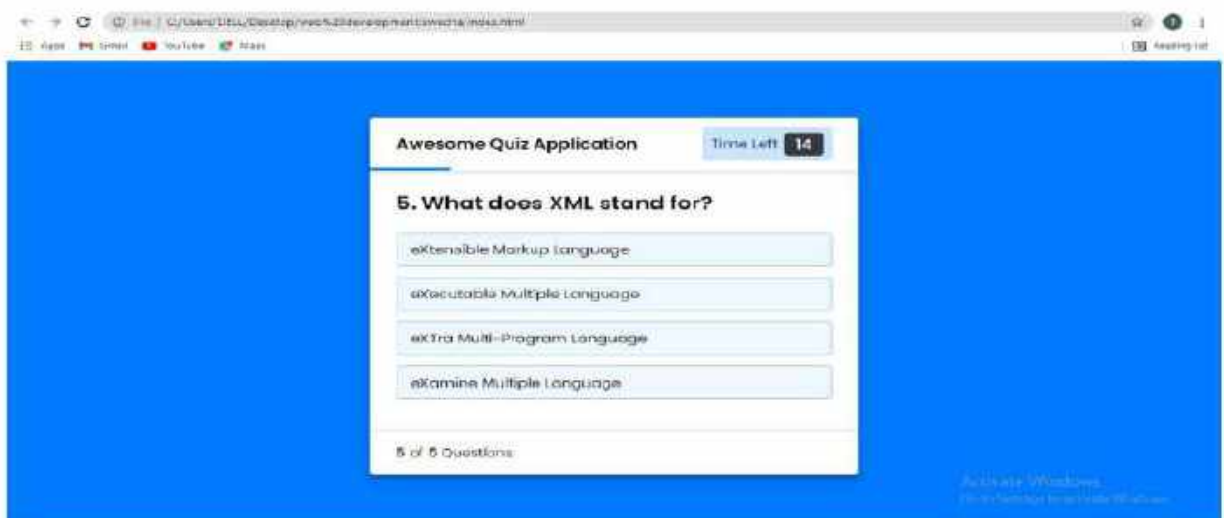
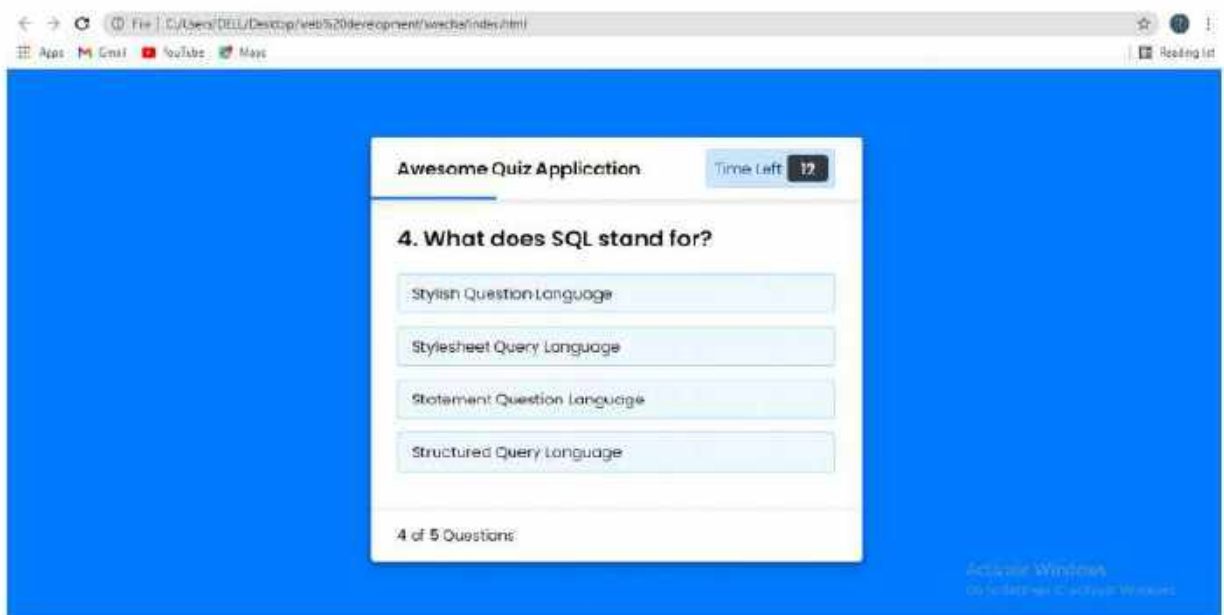
This page asks us to 'start quiz'. If we click on the 'start quiz', it moves on to next page, which contains the instructions of the quiz. At the end of the page, it asks us whether to continue with the quiz or to exit the quiz. If we click on exit game, then the page returns to start quiz page or else, the quiz starts.



## 2. ATTEMPT QUIZ :

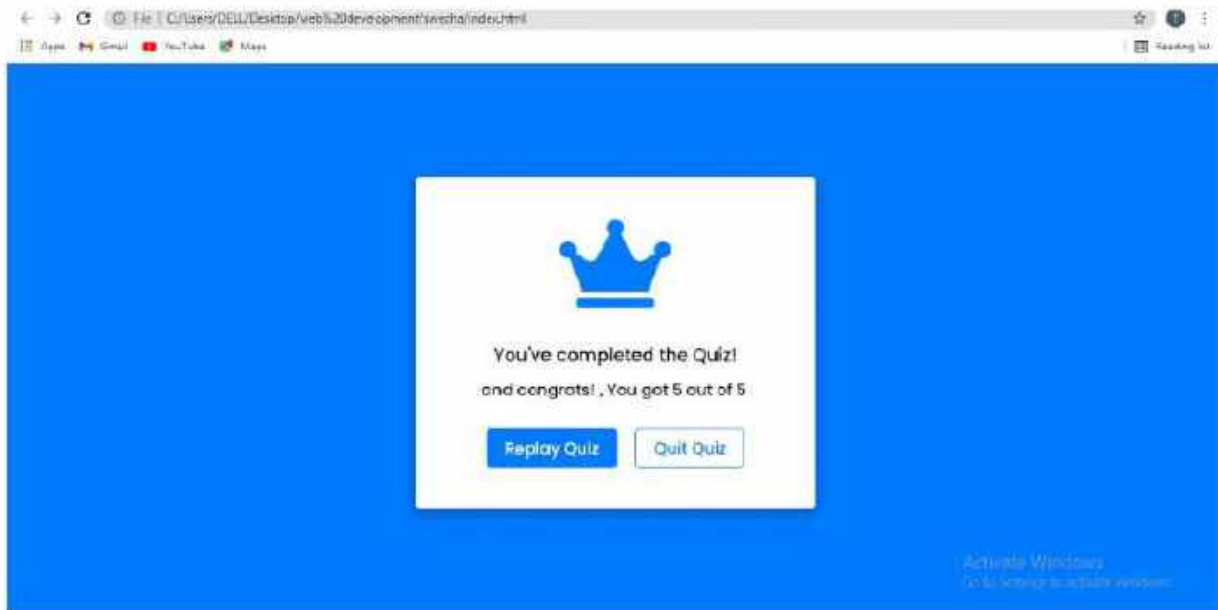
After Clicking on continue, the quiz starts. The quiz contains 5 questions. After clicking the option, automatically we comes to know the correct answer. Even if we dosen't give answer, after 15 seconds we get the answer and moves to next question.





### 3. RESULT :

After completion of 5 question we get the result of the quiz i.e., marks.



### 8.SOURCE CODE :

INDEX PAGE : (html code)

```
<!DOCTYPE html>
<!-- Created By CodingNepal - www.codingnepalweb.com -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Awesome Quiz App | CodingNepal</title>
  <link rel="stylesheet" href="style.css">
  <!-- FontAweome CDN Link for Icons -->
  <script src="https://kit.fontawesome.com/a076d05399.js"></script>
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/font-awesome@5.15.3/css/all.min.css"/>
</head>
<body>
  <!-- start Quiz button -->
  <div class="start_btn"><button>Start Quiz</button></div>
  <!-- Info Box -->
  <div class="info_box">
    <div class="info-title"><span>Some Rules of this Quiz</span></div>
    <div class="info-list">
      <div class="info">1. You will have only <span>15 seconds</span> per each
question.</div>
      <div class="info">2. Once you select your answer, it can't be undone.</div>
      <div class="info">3. You can't select any option once time goes off.</div>
    </div>
  </div>
</body>
</html>
```

```

        <div class="info">4. You can't exit from the Quiz while you're
playing.</div>
        <div class="info">5. You'll get points on the basis of your correct
answers.</div>
    </div>
    <div class="buttons">
        <button class="quit">Exit Quiz</button>
        <button class="restart">Continue</button>
    </div>
</div>
<!-- Quiz Box -->
<div class="quiz_box">
    <header>
        <div class="title">Awesome Quiz Application</div>
        <div class="timer">
            <div class="time_left_txt">Time Left</div>
            <div class="timer_sec">15</div>
        </div>
        <div class="time_line"></div>
    </header>
    <section>
        <div class="que_text">
            <!-- Here I've inserted question from JavaScript -->
        </div>
        <div class="option_list">
            <!-- Here I've inserted options from JavaScript -->
        </div>
    </section>
    <!-- footer of Quiz Box -->
    <footer>
        <div class="total_que">
            <!-- Here I've inserted Question Count Number from JavaScript -->
        </div>
        <button class="next_btn">Next Que</button>
    </footer>
</div>
<!-- Result Box -->
<div class="result_box">
    <div class="icon">
        <i class="fas fa-crown"></i>
    </div>
    <div class="complete_text">You've completed the Quiz!</div>
    <div class="score_text">
        <!-- Here I've inserted Score Result from JavaScript -->
    </div>
    <div class="buttons">
        <button class="restart">Replay Quiz</button>
        <button class="quit">Quit Quiz</button>
    </div>
</div>
<!-- Inside this JavaScript file I've inserted Questions and Options only -->
<script src="questions.js"></script>
<!-- Inside this JavaScript file I've coded all Quiz Codes -->
<script src="script.js"></script>
</body>
</html>
</html>

```



## DESIGN PAGE : (css code)

```
/* importing google fonts */
@import
url('https://fonts.googleapis.com/css2?family=Poppins:wght@200;300;400;500;600;700&display=swap');
*{
margin: 0;
padding: 0;
border-box: border-box;
font-family: 'Poppins', sans-serif;
}
body{
background: #007bff;
}
::selection{
color: #fff;
background: #007bff;
}
.start_btn,
.info_box,
.quiz_box,
.result_box{
position: absolute;
top: 50%;
left: 50%;
transform: translate(-50%, -50%);
box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2),
0 6px 20px 0 rgba(0, 0, 0, 0.19);
}
.info_box.activeInfo,
.quiz_box.activeQuiz,
.result_box.activeResult{
opacity: 1;
z-index: 5;
pointer-events: auto;
transform: translate(-50%, -50%) scale(1);
}
.start_btn button{
font-size: 25px;
font-weight: 500;
color: #007bff;
padding: 15px 30px;
outline: none;
border: none;
border-radius: 5px;
background: #fff;
cursor: pointer;
}
.info_box{
width: 540px;
background: #fff;
border-radius: 5px;
transform: translate(-50%, -50%) scale(0.9);
opacity: 0;
pointer-events: none;
transition: all 0.3s ease;
}
.info_box .info-title{
height: 60px;
width: 100%;
```

```

border-bottom: 1px solid lightgrey;
display: flex;
align-items: center;
padding: 0 30px;
border-radius: 5px 5px 0 0;
font-size: 20px;
font-weight: 600;
}
.info_box .info-list{
padding: 15px 30px;
}
.info_box .info-list .info{
margin: 5px 0;
font-size: 17px;
}
.info_box .info-list .info span{
font-weight: 600;
color: #007bff;
}
.info_box .buttons{
height: 60px;
display: flex;
align-items: center;
justify-content: flex-end;
padding: 0 30px;
border-top: 1px solid lightgrey;
}
.info_box .buttons button{
margin: 0 5px;
height: 40px;
width: 100px;
font-size: 16px;
font-weight: 500;
cursor: pointer;
border: none;
outline: none;
border-radius: 5px;
border: 1px solid #007bff;
transition: all 0.3s ease;
}
.quiz_box{
width: 550px;
background: #fff;
border-radius: 5px;
transform: translate(-50%, -50%) scale(0.9);
opacity: 0;
pointer-events: none;
transition: all 0.3s ease;
}
.quiz_box header{
position: relative;
z-index: 2;
height: 70px;
padding: 0 30px;
background: #fff;
border-radius: 5px 5px 0 0;
display: flex;
align-items: center;
justify-content: space-between;
box-shadow: 0px 3px 5px 1px rgba(0,0,0,0.1);
}
.quiz_box header .title{
font-size: 20px;

```

```

    font-weight: 600;
}
.quiz_box header .timer{
    color: #004085;
    background: #cce5ff;
    border: 1px solid #b0daff;
    height: 45px;
    padding: 0 8px;
    border-radius: 5px;
    display: flex;
    align-items: center;
    justify-content: space-between;
    width: 145px;
}
.quiz_box header .timer .time_left_txt{
    font-weight: 400;
    font-size: 17px;
    user-select: none;
}
.quiz_box header .timer .timer_sec{
    font-size: 18px;
    font-weight: 500;
    height: 30px;
    width: 45px;
    color: #fff;
    border-radius: 5px;
    line-height: 30px;
    text-align: center;
    background: #343a40;
    border: 1px solid #343a40;
    user-select: none;
}
.quiz_box header .time_line{
    position: absolute;
    bottom: 0px;
    left: 0px;
    height: 3px;
    background: #007bff;
}
section{
    padding: 25px 30px 20px 30px;
    background: #fff;
}
section .que_text{
    font-size: 25px;
    font-weight: 600;
}
section .option_list{
    padding: 20px 0px;
    display: block;
}
section .option_list .option{
    background: aliceblue;
    border: 1px solid #84c5fe;
    border-radius: 5px;
    padding: 8px 15px;
    font-size: 17px;
    margin-bottom: 15px;
    cursor: pointer;
    transition: all 0.3s ease;
    display: flex;
    align-items: center;
    justify-content: space-between;
}

```

```

}
section .option_list .option:last-child{
    margin-bottom: 0px;
}
section .option_list .option:hover{
    color: #004085;
    background: #cce5ff;
    border: 1px solid #b8daff;
}
section .option_list .option.correct{
    color: #155724;
    background: #d4edda;
    border: 1px solid #c3e6cb;
}
section .option_list .option.incorrect{
    color: #721c24;
    background: #f8d7da;
    border: 1px solid #f5c6cb;
}
section .option_list .option.disabled{
    pointer-events: none;
}
section .option_list .option .icon{
    height: 26px;
    width: 26px;
    border: 2px solid transparent;
    border-radius: 50%;
    text-align: center;
    font-size: 13px;
    pointer-events: none;
    transition: all 0.3s ease;
    line-height: 24px;
}
.option_list .option .icon.tick{
    color: #23903c;
    border-color: #23903c;
    background: #d4edda;
}
.option_list .option .icon.cross{
    color: #a42834;
    background: #f8d7da;
    border-color: #a42834;
}
footer{
    height: 60px;
    padding: 0 30px;
    display: flex;
    align-items: center;
    justify-content: space-between;
    border-top: 1px solid lightgrey;
}
footer .total_que span{
    display: flex;
    user-select: none;
}
footer .total_que span p{
    font-weight: 500;
    padding: 0 5px;
}
footer .total_que span p:first-child{
    padding-left: 0px;
}
footer button{

```

```

height: 40px;
padding: 0 13px;
font-size: 18px;
font-weight: 400;
cursor: pointer;
border: none;
outline: none;
color: #fff;
border-radius: 5px;
background: #007bff;
border: 1px solid #007bff;
line-height: 10px;
opacity: 0;
pointer-events: none;
transform: scale(0.95);
transition: all 0.3s ease;
}
footer button:hover{
background: #0263ca;
}
footer button.show{
opacity: 1;
pointer-events: auto;
transform: scale(1);
}
.result_box{
background: #fff;
border-radius: 5px;
display: flex;
padding: 25px 30px;
width: 450px;
align-items: center;
flex-direction: column;
justify-content: center;
transform: translate(-50%, -50%) scale(0.9);
opacity: 0;
pointer-events: none;
transition: all 0.3s ease;
}
.result_box .icon{
font-size: 100px;
color: #007bff;
margin-bottom: 10px;
}
.result_box .complete_text{
font-size: 20px;
font-weight: 500;
}
.result_box .score_text span{
display: flex;
margin: 10px 0;
font-size: 18px;
font-weight: 500;
}
.result_box .score_text span p{
padding: 0 4px;
font-weight: 600;
}
.result_box .buttons{
display: flex;
margin: 20px 0;
}
.result_box .buttons button{

```

```

margin: 0 10px;
height: 45px;
padding: 0 20px;
font-size: 18px;
font-weight: 500;
cursor: pointer;
border: none;
outline: none;
border-radius: 5px;
border: 1px solid #007bff;
transition: all 0.3s ease;
}
.buttons button.restart{
color: #fff;
background: #007bff;
}
.buttons button.restart:hover{
background: #0263ca;
}
.buttons button.quit{
color: #007bff;
background: #fff;
}
.buttons button.quit:hover{
color: #fff;
background: #007bff; }

```

## QUESTIONS PAGE : (js questions code)

```

let questions = [
  {
    numb: 1,
    question: "What does HTML stand for?",
    answer: "Hyper Text Markup Language",
    options: [
      "Hyper Text Preprocessor",
      "Hyper Text Markup Language",
      "Hyper Text Multiple Language",
      "Hyper Tool Multi Language"
    ]
  },
  {
    numb: 2,
    question: "What does CSS stand for?",
    answer: "Cascading Style Sheet",
    options: [
      "Common Style Sheet",
      "Colorful Style Sheet",
      "Computer Style Sheet",
      "Cascading Style Sheet"
    ]
  },
  {
    numb: 3,
    question: "What does PHP stand for?",
    answer: "Hypertext Preprocessor",
    options: [
      "Hypertext Preprocessor",
      "Hypertext Programming",
      "Hypertext Preprogramming",
      "Hcmetext Preprocessor"
    ]
  }
]

```

```

    ]
  },
  {
    numb: 4,
    question: "What does SQL stand for?",
    answer: "Structured Query Language",
    options: [
      "Stylish Question language",
      "Stylesheet Query Language",
      "Statement Question Language",
      "Structured Query Language"
    ]
  },
  {
    numb: 5,
    question: "What does XML stand for?",
    answer: "eXtensible Markup Language",
    options: [
      "eXtensible Markup Language",
      "eXecutable Multiple Language",
      "eXtra Multi-Program Language",
      "eXamine Multiple language"
    ]
  }
],
// you can uncomment the below codes and make duplicate as more as you want to add
question
// but remember you need to give the numb value serialise like 1,2,3,5,6,7,8,9....
// (
//   numb: 6,
//   question: "Your Question is Here",
//   answer: "Correct answer of the question is here",
//   options: [
//     "Option 1",
//     "option 2",
//     "option 3",
//     "option 4"
//   ]
// },
// ],
];

```

## SCRIPT PART : (js code)

```

//selecting all required elements
const start_btn = document.querySelector(".start_btn button");
const info_box = document.querySelector(".info_box");
const exit_btn = info_box.querySelector(".buttons .quit");
const continue_btn = info_box.querySelector(".buttons .restart");
const quiz_box = document.querySelector(".quiz_box");
const result_box = document.querySelector(".result_box");
const option_list = document.querySelector(".option_list");
const time_line = document.querySelector("header .time_line");
const timeText = document.querySelector(".timer .time_left_txt");
const timeCount = document.querySelector(".timer .timer_sec");
// if startQuiz button clicked
start_btn.onclick = ()=>{
  info_box.classList.add("activeInfo"); //show info box
}
// if exitQuiz button clicked
exit_btn.onclick = ()=>{
  info_box.classList.remove("activeInfo"); //hide info box
}

```

```

// if continueQuiz button clicked
continue_btn.onclick = ()=>{
    info_box.classList.remove("activeInfo"); //hide info box
    quiz_box.classList.add("activeQuiz"); //show quiz box
    showQuestions(0); //calling showQuestions function
    queCounter(1); //passing i parameter to queCounter
    startTimer(15); //calling startTimer function
    startTimerLine(0); //calling startTimerLine function
}
let timeValue = 15;
let que_count = 0;
let que_numb = 1;
let userScore = 0;
let counter;
let counterLine;
let widthValue = 0;
const restart_quiz = result_box.querySelector(".buttons .restart");
const quit_quiz = result_box.querySelector(".buttons .quit");
// if restartQuiz button clicked
restart_quiz.onclick = ()=>{
    quiz_box.classList.add("activeQuiz"); //show quiz box
    result_box.classList.remove("activeResult"); //hide result box
    timeValue = 15;
    que_count = 0;
    que_numb = 1;
    userScore = 0;
    widthValue = 0;
    showQuestions(que_count); //calling showQuestions function
    queCounter(que_numb); //passing que_numb value to queCounter
    clearInterval(counter); //clear counter
    clearInterval(counterLine); //clear counterLine
    startTimer(timeValue); //calling startTimer function
    startTimerLine(widthValue); //calling startTimerLine function
    timeText.textContent = "Time Left"; //change the text of timeText to Time Left
    next_btn.classList.remove("show"); //hide the next button
}
// if quitQuiz button clicked
quit_quiz.onclick = ()=>{
    window.location.reload(); //reload the current window
}
const next_btn = document.querySelector("footer .next_btn");
const bottom_que_counter = document.querySelector("footer .total_que");
// if Next Que button clicked
next_btn.onclick = ()=>{
    if(que_count < questions.length - 1){ //if question count is less than total
question length
        que_count++; //increment the que_count value
        que_numb++; //increment the que_numb value
        showQuestions(que_count); //calling showQuestions function
        queCounter(que_numb); //passing que_numb value to queCounter
        clearInterval(counter); //clear counter
        clearInterval(counterLine); //clear counterLine
        startTimer(timeValue); //calling startTimer function
        startTimerLine(widthValue); //calling startTimerLine function
        timeText.textContent = "Time Left"; //change the timeText to Time Left
        next_btn.classList.remove("show"); //hide the next button
    }else{
        clearInterval(counter); //clear counter
        clearInterval(counterLine); //clear counterLine
        showResult(); //calling showResult function
    }
}
// getting questions and options from array

```



```

function showQuestions(index) {
    const que_text = document.querySelector(".que_text");
    //creating a new span and div tag for question and option and passing the value
    using array index
    let que_tag = '<span>'+ questions[index].numb + ". " + questions[index].question
    + '</span>';
    let option_tag = '<div class="option"><span>'+ questions[index].options[0]
    + '</span></div>'
    + '<div class="option"><span>'+ questions[index].options[1] + '</span></div>'
    + '<div class="option"><span>'+ questions[index].options[2] + '</span></div>'
    + '<div class="option"><span>'+ questions[index].options[3] + '</span></div>';
    que_text.innerHTML = que_tag; //adding new span tag inside que_tag
    option_list.innerHTML = option_tag; //adding new div tag inside option_tag

    const option = option_list.querySelectorAll(".option");
    // set onclick attribute to all available options
    for(i=0; i < option.length; i++){
        option[i].setAttribute("onclick", "optionSelected(this)");
    }
}
// creating the new div tags which for icons
let tickIconTag = '<div class="icon tick"><i class="fas fa-check"></i></div>';
let crossIconTag = '<div class="icon cross"><i class="fas fa-times"></i></div>';
//if user clicked on option
function optionSelected(answer){
    clearInterval(counter); //clear counter
    clearInterval(counterLine); //clear counterLine
    let userAns = answer.textContent; //getting user selected option
    let correcAns = questions[que_count].answer; //getting correct answer from array
    const allOptions = option_list.children.length; //getting all option items

    if(userAns == correcAns){ //if user selected option is equal to array's correct
    answer
        userScore += 1; //upgrading score value with 1
        answer.classList.add("correct"); //adding green color to correct selected
    option
        answer.insertAdjacentHTML("beforeend", tickIconTag); //adding tick icon to
    correct
    selected option
        console.log("Correct Answer");
        console.log("Your correct answers = " + userScore);
    }else{
        answer.classList.add("incorrect"); //adding red color to correct selected
    option
        answer.insertAdjacentHTML("beforeend", crossIconTag); //adding cross icon to
    correct
    selected option
        console.log("Wrong Answer");
        for(i=0; i < allOptions; i++){
            if(option_list.children[i].textContent == correcAns){ //if there is an
            option
            which is matched to an array answer
                option_list.children[i].setAttribute("class", "option correct");
                //adding green color to matched option
                option_list.children[i].insertAdjacentHTML("beforeend", tickIconTag);
                //adding tick icon to matched option
                console.log("Auto selected correct answer.");
            }
        }
    }
    for(i=0; i < allOptions; i++){
        option_list.children[i].classList.add("disabled"); //once user select an option
    then disabled all options
    }
    next_btn.classList.add("show"); //show the next button if user selected any option
}

```

```

function showResult(){
  info_box.classList.remove("activeInfo"); //hide info box
  quiz_box.classList.remove("activeQuiz"); //hide quiz box
  result_box.classList.add("activeResult"); //show result box
  const scoreText = result_box.querySelector(".score_text");
  if (userScore > 3){ // if user scored more than 3
    //creating a new span tag and passing the user score number and total question
    number
    let scoreTag = '<span>and congrats! , You got <p>'+ userScore + '</p> out of
    <p>'+ questions.length + '</p></span>';
    scoreText.innerHTML = scoreTag; //adding new span tag inside score_Text
  }
  else if (userScore > 1){ // if user scored more than 1
    let scoreTag = '<span>and nice , You got <p>'+ userScore + '</p> out of <p>'+
    questions.length + '</p></span>';
    scoreText.innerHTML = scoreTag;
  }
  else{ // if user scored less than 1
    let scoreTag = '<span>and sorry , You got only <p>'+ userScore + '</p> out of
    <p>'+ questions.length + '</p></span>';
    scoreText.innerHTML = scoreTag;
  }
}
function startTimer(time){
  counter = setInterval(timer, 1000);
  function timer(){
    timeCount.textContent = time; //changing the value of timeCount with time value
    time--; //decrement the time value
    if(time < 9){ //if timer is less than 9
      let addZero = timeCount.textContent;
      timeCount.textContent = "0" + addZero; //add a 0 before time value
    }
    if(time < 0){ //if timer is less than 0
      clearInterval(counter); //clear counter
      timeText.textContent = "Time Off"; //change the time text to time off
      const allOptions = option_list.children.length; //getting all option items
      let correcAns = questions[que_count].answer; //getting correct answer from
      array
      for(i=0; i < allOptions; i++){
        if(option_list.children[i].textContent == correcAns){ //if there is an
        option which is matched to an array answer
          option_list.children[i].setAttribute("class", "option correct");
          //adding green color to matched option
          option_list.children[i].insertAdjacentHTML("beforeend",
          tickIconTag); //adding tick icon to matched option
          console.log("Time Off: Auto selected correct answer.");
        }
      }
      for(i=0; i < allOptions; i++){
        option_list.children[i].classList.add("disabled"); //once user select
        an option then disabled all options
      }
      next_btn.classList.add("show"); //show the next button if user selected any
      option
    }
  }
}
function startTimerLine(time){
  counterLine = setInterval(timer, 20);
  function timer(){
    time += 1; //upgrading time value with 1
    time_line.style.width = time + "px"; //increasing width of time_line with px by
    time value
  }
}

```

```

        if(time > 549){ //if time value is greater than 549
            clearInterval(counterLine); //clear counterLine
        }
    }
}
function queCounter(index){
    //creating a new span tag and passing the question number and total question
    let totalQueCounTag = '<span><p>'+ index +'</p> of <p>'+ questions.length +'</p>
Questions</span>';
    bottom_ques_counter.innerHTML = totalQueCounTag; //adding new span tag inside
bottom_ques_counter }

```

## 9.CONCLUSION :

By this project, we have successfully explored our idea about online classes. Also, we have implemented the html, css and javascript. By this, we can easily know the marks immediately after completion of exam and no more manual correction is required.

## 10.FUTURE ENHANCEMENT :

In this project it is only for MCQ test but in the future we have plan to extended it to support subjective type of questions with more functionality. We will add Administrative part on it which able the system to delete test, add user, delete user and so on graphically vie the web.

## 11.REFERENCES :

1. Nelson, Pam (2007-11-05). ["Take a Triangle Grammar Guide quiz". \*The News & Observer\*. Archived from \*the original\* on April 26, 2013. Retrieved November 28, 2010.](#)

*Swecha*

## Certificate of Internship

This is to certify that

**Srinivas Gadham**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



**SWECHA INTERNSHIP WEB DEVELOPMENT  
PROJECT REPORT  
GROUP PROJECT  
Cooking Recipe Management System**



**DEPARTMENT OF COMPUTER SCIENCE AND  
ENGINEERING**

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)**

## TEAM 32

NAME	ROLL NO.
Abhinav Tej	160120748022
Yalla Sai Keertana	160120733130
Rakesh Reddy	160120732112
Rishika Reddy	160120737009
Rishitha	160120734073
Sai Sripadh Varma	160120748049
Srinivas	160120748315
Varshitha Minumula	160120748021

## **TABLE OF CONTENTS:**

- **ACKNOWLEDGEMENT**
- **ABSTRACT**
- **SOURCE CODE**
- **COMPANY BACKGROUND**
- **RESPONSIBILITY & WORK COMPLETED**
- **SKILLS LEARNED & EXPERIENCE GAINED**
- **CONCLUSION**

## **ACKNOWLEDGEMENT**

I would like to express my special thanks to the SWECHA internship for their able guidance and support in completing the project.

I would like to extend my gratitude to the principal for providing me with all the facilities that were required to do our project.



## ABSTRACT

Cooking is the most talented one where every one cannot do it. for some of them cooking is hobbies and for some of the it is time pass.

The manually work is the these people have to get knowledge or information from different kind of sources like books, people, etc. But these is very difficult to find out answers for queries of about their issues.

So from this Cooking Recipe Management System project we are giving ultimate solution for all of them that is we are making website where each and every one check and see the website.

These website don' t required any username and password. so every one can see the website. and our website is contain about the food items with irrespective of the region or country.

All kind of items are displayed on the websites. so our website is open for any one with irrespective of country and region.

## SOURCE CODE

```
<!DOCTYPE HTML>
<head>
<title> HOMEPAGE</title>
<meta charset="UTF- 8">
</head>
<body
background="https://media.istockphoto.com/photos/modern- brick
- wall- 3d- rendering- picture-
id1140265911?k=6&m=1140265911&s=612x612&w=0&h=CN4PaIHKq
NiBtfd- X0F6tubqr_ RGwnn6mCkb1LPpE=">
<table style="background- image:
url('https://media.istockphoto.com/photos/vegetables- water-
splash- picture-
id683041906?k=6&m=683041906&s=612x612&w=0&h=m7eXRIGaG
4ptcsH_nX7V- YJ34TlcvZeUc7ZnPOpJR04=');" ; align="center"
width="100%" height="150">
  <tr>

    <td span style="text- align: center;">
      <center><strong><font color ="white"><em><font
size="10"></em> &emsp;&emsp; &emsp;&emsp;
&emsp;&emsp;DELISH</font></font></strong></center>
    </td>
    <td>
      <center> <a href="subscribe.html"><button
type="button">SUBSCRIBE</button></a></center> </td>
      <td><center> <a href ="joinus (1).html"><button
type="button"> JOIN US</button></a></center></td>
      <td><a href ="#cuisines"><button type="button">
CUISINES</button></a></td>
    </tr>
  </table>
<br><br><br><br><br><br><br>
<center></center><br><br><br><br><br><br><br><br>
<font color="white"><font size="5"><h3><u>ABOUT US</u></h3>
```

```
<b>DELISH</b> recipes is here to help you cook delicious meals
with less stress and more joy. We offer recipes over a wide range of
cuisines <b><i>for Home Cooks, by Home Cooks.</i></b><br>
```

```
Helping create " kitchen wins" is what we' re all about. Delish
Recipes was founded in 2021 as a home cooking blog to record our
favorite recipes from different cuisines.
```

```
Your kitchen is a place to be creative and productive. Meals are
meant to be savored and enjoyed. Good food is simple, fresh,
seasonal and delicious.<br> Delish is a tool for helping you eat well
and enjoy the process of cooking real, good food.
```

```
This blog is ever changing, evolving and growing but the one
thing that remains constant is how happy it makes us to read
comments and emails from you, the reader. Feel free to write to us
on any of the online platforms.
```

```
<i> Thank you for visiting our page :)</i></font></font><br>
<br><br>
```

```
<center><font size="5" color="white"><h2 id="cuisines">CHOOSE
THE CUISINE</h2></font>
```

```
<label><img src ="https://www.clipartkey.com/mpngs/m/26-
264529_transparent-cook-clipart-italian-chef-cartoon-
transparent.png" width="500"height="350"><br>
```

```
&emsp; &emsp; &emsp; <a href="italian
cuisine.html"target="_blank">ITALIAN
DISHES</a></label><br><br>
```

```
<br>
```

```
&emsp; &emsp; &emsp; <a href="INDIAN
dishes.html"target="_blank" >INDIAN DISHES</a><br><br>
```

```
<label><br>
```

```
&emsp; &emsp; &emsp; <a
href="ThaiCuisine.html"target="_blank">THAI
```

```
DISHES</a></label><br><br><br><br>
<label><br>
&nbsp; &nbsp; &nbsp; &nbsp; <a
href="chinese.html" target="_blank">CHINEESE
DISHES</a></label><br><br>
```

```
<label><br>
&nbsp; &nbsp; &nbsp; &nbsp; <a
href="cuisine.html" target="_blank">MEXICAN
DISHES</a></label><br><br><br><br><br></center>
```

```
<font color="white"><center><h1><svg height="130" width=" 500">
<defs>
  <linearGradient id="grad1" x1="0%" y1="0%" x2="100%"
y2="0%">
  <stop offset="0%" style="stop- color:rgb(5, 128, 107);stop-
opacity:1" />
  <stop offset="100%" style="stop- color:rgb(4, 53, 109);stop-
opacity:1" />
  </linearGradient>
</defs>
<ellipse cx=" 500" cy=" 1000" rx="1000" ry="1000" fill="url(#grad1)"
/>
  <text fill=" #ffffff" font- size="45" font- family="Verdana" x=" 50"
y="86">CONTEST ALERT</text>
  Sorry, your browser does not support inline SVG.
</svg></h1></center></font>
<table width=" 100%" background="tina.gif">
  <tr>
    <td>
      <img src
="data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2w
CEAAoHCBUVFRgWFhUYGRgYGRgcGBoYGHgYGBwaGBgaGhkYH
```

BgclS4lHB4rIRgYJzgmKy8xNTU1GiQ7QDszPy40NTEBDawMEA8Q  
GhISGjQhISQxNDQxMTExNDQ0NDQ0NDE0MTQ0NDQ2NDQ0NDE0  
MTQ0NDE0NDQ0NDQ0NDQ0NEA0PzQ0NP/AABEIAJIBWQMBIga  
CEQEDEQH/xAAbAAABBQEBAAAAAAAAAAAAAAAAAAQIDBAUGB//  
EAD0QAAICAAUCAwUGBAUEAwEAAAECABEDBBihMQVBIIIFhEzJx  
gZEGQqGxwfAzUmLRFBWC4fFDcpKiFiOyB//EABkBAQEBAQEBA  
AAAAAAAAAAAAAAAAABAgaMEBf/EACARAQEAAgEFAQEBA  
AAAAAAAAAAAAAAAAABAhaExAxITIVFBYTL/2gAMAwEAAhE  
DEQA/APNMrmppo4WJMTR  
RmvkxtzNRhql+0a63INdRGzAICNh0eJPhUe0ptmBHpmgIEmZyl9pk  
4+QPINxM4pEbiupEaHMvlyJFU2MxUz2UX2+czYsqEcf7d5tZcEYTW  
aJRSOBsHBN/+SmZFdvP189/zmphYl4dn+ZUXz2F7d73W78xEK1M  
XHTERELgLgrS6RuxGl8R/nqFX3EizOG668NUDF2Kg8LqPsyoruff+s  
o9OQHEVhzYtPNSwJ/AgflzT69l2Q4mm10FioyAEbhxiE4nxtNPppIQ  
xcs4d8JHtAjQ5PB004V29NZHzUQzWZRSPDRFCICHZxuwxEpAgPY  
EAP85e6NkQ4fDR1R8dXQkkmsMFG2HavGb736XMbqW7AohUaEO  
lnB90kmuD4Rd7cwLmY6m+K+CX9/DwUQYh5QljqdQ7+9x51chyXTk  
x3QBwvutibgMpZW10DsN11Ga/VkrExigRjiYmJrLcqvtnDUQE0p8KKf  
Vx5TLzPT8fL4+oUfZsVO3IUtiNt3F6l1fKRpYwMdkV1C69Yw8LnSGpt  
WqxuVY4eF8NbSHNdNZUdNasxx2S7otpw6QEC/DYv40e0uY+XcB  
NDasco5J2on3nT4hSK+J+MjzuYK4WLglGKXWzWot7PD9k+lr2sN  
qJA4Q/lyzM7knKgHZk0owFVqoEihuSA1/hMxSCJKFGyqSbvcMB4f0  
9U1M1jYbj2rltdNwQGZZZTq5oBS7VXOny2ILOKu/G1e792gu1D+pmv  
6bSNKdkAitzpN8kbEij6hhfy8owyTEwiKsjcKdjevKGHW2lkZgJvGx9R  
pgIYyPaMMKaYRTEgJCESAQhCAQhCAQhEgEIQgEIQgEIQgaeYTxS  
zgYISznMrUz7qbYWMbMys+YkeJvKrXJaSLZzEQYh7SDAwixnSdP6  
KWkm60xBiN6x3t29Z1yfZ8eUz+odl0dpdMudbFJjTXf98/hJ3waMac  
OZaMR63lsCr4vniaGVyzsoUfctqHI1aAWvzog/KU/Z7bc3+Fd/n0kyG  
HrwyE99SpF7WOCpPlekSxKdlsRcDBDhVJTfKNwTuiLqr46ovVHR2  
UsA6nBYJfhPgcaT/Uw8Z328Rma2rRiHTSqyPRumPiWueL1/SVmtlb  
2hoKtoa4J3q/XXX08pUWnUK6ey1+NSHNXuWdX00d6Bq/6bkwxGf  
CbQikoqq7knW+GAU38iQwHppA7yLJI5fDZNt1TBSbe0JDg0funU1/C  
XsziPg66VaQYq6WFElRWDC9wto1+okEvT80QHw1XUcQ04xGIBVs  
TEXQxX+XTh332PYXM3M9R9rin/7KVsRtL6SAVdlJs1soKs3+tvOT5l2  
VFGGxbEBZHJCSaZVwwg48Kotf6uZZy2QR8uNbeN3ZnG2pFwsN9  
SD+otiJtsCBDSj1HNqH14aUoQ5glpBBvwhSb58Wl3HbaW/8ZpasLIG  
CKGPKYqYaO1jvrZCL7MZVyLa0QAaXYMNZJNFw7HtahgB9dr2ucY  
glTxKmCxTDoLbk4YAa+9eAEEdz6bhkZzDXEwsNgfGEYaQKBVNTu

+o87Bx/oHzojU5XeySqi6FEBVB+Gyi+9Toer46uEdCCFYMAPC2kqnt  
EoDcFmPoQ31xGw/CzrWjUVK7BgAVlu+xGnfzuQVCKJH1+PeIZKm  
GSLuhtzfnW1c1lyICRkfGQEaJzGQpphAxDAIkWJAIQhAIQhAIkWJA  
IQhAIQhAIQhA7fqLLU5rH5mjjoa3My8TmbtYiVFuAypY7SxIMJm7Tp  
emdM7kSa2KfRuj7gkTsMtghABUTBwQoiO8osFxmjqI2DLZeR4iXDti  
8xlzqO0g9nOmzeXEyM0mmYNKgdqvfyV/czpshlwUXTQ2N1zSgXf  
zJ+k5X21Hmtv1/2nXdAw2xVIAAoeIk7DV+v95ZEppyl4iYRNDDCi6sN  
bFzfnX6GYePjorrrGsaMM4grbWgJSx/VQBm/1XLujM4Fi9K6Txqvsef  
vf+UyFyCu5LkqWZFRaNs5oqTpHr/6y0ijlBhlCzYmmkFLTXqLEKqEc  
EhFN/wBXRl7ZjGxlZSpbQqng6mACB6AFjYKK2v4zYy/20H/VdMNw  
61bAkBLpQikkaiQZvZPoeVVGd4+lwxGLMFDC/EdSigTR1Vt5SGnB9  
HPtfaELfi9oGloNwPqHLH3bAJ+PrGZMshxFTZ2D+JtgytpbTzzpHzo  
eRnpWB9mun06l7AuwZqdi29begl2r1ll/YfLOTozAZxpstRcVfiJUjem2  
JHIJtdOMyZUsgG5Z0TQASxU4i26uPd0pg6bNGj32ITpWKntAXb/qg  
6OV0YhOHivZ4KgKQNqs+U7fG+xucRCmG6Eg6hiAKjsxsbkLekKx2J  
v8Kxc90bFwXD4+XPscNvaMEKAlmCghWsgC9VXsbJ2g05TFygVgc  
QaQioaX3mGpEUejMEdt/Mbyo+olyyk2tsANgSlpflRI58po4W SbExN  
OlcWiyK9IXfQrBFK3yQpXnmjE6jl8TDbHACiycNwhZ1BQeMa333Clr  
Nc16QMzM4WkhQ1jSrD/AFqrfrImTa7G5lrvwN/x/CT42mg1BA2nS  
o8WwGlm33NkbCxfYsSw+cBCl0iS42GUoEqbUEaTYo9j6+kiMKRo  
yOMbAQxpimlYBEixlBCElBCElCQhCAQhCAQhCAQhCB2KYauvMrL  
0+2lHpWadnC+c6fILZPoSPpNz2zo7JZMLW03MsQBKLqRH4D1zKj  
Rd5Tx8wB3kGbzoUczlc/1Uk7GQdYmaXzItXBE88TqTDe5p5TrnnGxv  
dQac5n3sSzmeohhzM3ExbBma1Ky3c3XnX5zpuI9U0oVvfVdX8Jy+Y  
G8Yr7bmJdJZt6MmcwHwtW0zhLqk3Y6buvLkb+YgetZDUpQshllt1b  
VQUE25NWCP6fd9ZxmhwTqaHIHN/EHaVDnMQHf8VG2wG1DyHw5  
mO6ZXl07MpPcdxidTyfhrEwz/NqW3U3q3sN73HF87c2DdGdRmQL  
mMFgtUNSRy1BvdPoNifNTXFed+2sKCNQW/unchfTZbYxfFcnvH4  
Wddb0r72/8NeRxVg1Xp/xdwkvx6dlsXGxUB0Au/hYjQ6PZZy5Umrob  
+li2sb3NTp+acMNWGLUHcLR7CgRY2A7fy1tU8syedzjABMMsBZ/h  
oBv3PhH04nR5H/M3l0qFvm30cnUQANhYNcH5yd+M5rU6eV4leo5  
LMsdmN2NqI0x4vYV/t8Lsv7QClpghsNRBHcUP7TgMvg9Uv8AiYKg  
m/EcRze/qPLy7zSy2T6iD4s6gHkuGWv1tn278dvLtpJj9XxZfEv2k+yR  
zCn2VIDROGxYKSlkEINTwXFEDZ72oTl+o/ZGBxQ9ZcZhrVcTEemxC  
pvWRsABqZdiPHp1AgA9P8A5b1MMHXPlxFWhSlajvub03X75lb7c40  
ZGFhvJPagqB7G0C4zMoRndidKA8MQRfYWDL3y3TNwsm3nGJlNy  
wW2YFgUxChTET2ThG8PaySTRoEgEeczsxk9LMAY2qlx1nQx1gNSgj

c0w29CZ0T4rlwbFKNhJhmsM2mJil1+AfzaHJ0uNrW9iamBjlsUh2Lu  
SwDkks41MQoo9yBtW3baaYQ4+BoVGpxrW/EukHerQ34hxvtvcgfDI  
AJUgN7p7HejUc6EEjfYkbjSdiRuv3T5iMY3tfHHkPg00BjGNMewjDA  
YYhimIYBEixIBCEIBEiwgJCEIBCEIBCEIBCEIHR/ZhBqdyNkQn9f0lvoP  
UQTueTf1jen4bJkMZ9P8Q6AfidP6GYOVtTNS6ZsegY+bWuZTfqC1z  
OXxM23FyMOTzHci91HP2eZjPiWZLi4bHtlxISZLVklrx3wguTfylvD6c  
9cQaUmxjBcwZPi5NhyJCcqZFiLExlk3TEVsVFb3SwB7/AfM0Pnl/w  
DDmX0koEx8Nm4Di/S9gfkSDM5cVrHmOuxuh4gFgah6fv8AdSl/lz1  
7h/f5zscgSB71/ILYxVJAIF33G3HnPm6/un0vJZ+bcD/l5As8SNduB38  
qnc4+WQg2Aa523/LjeZuNIMNQRuOCLHkfQbDaS93610pPjNyeacX  
4Uv1IG3l8Zr5LrWlhBZLHaje2wFvtfFynRke2FHbYGqPzJH7qbwTCD  
hHUarW05C7DxA72CFHz29Yx6WV98F6+M9cs90v4asBbKdwwYX  
XG3IYAO/adBkswrrqRgR8j+/Ocd9o8bKZd/GS5Yikw6tQDtvasVzXkN  
t5a6AQAMXDBKsLAsbrfIAJ4JHwnXx54/m4xethIP67TCu9j9fW aRyq  
4uG2G4tGFEGZeUzoauL2/KbGBmbnfCfu3m6me/wAeIDpwV8bAdE  
C4GHiohKBteJrLBjSk6VYqL08EWaaYOHhsgxaJ1HDcYyWcNsNhiB  
WQpZ1qCVIPr2lnT/bPMv8A43MsrSiFggZNBEOEBa11gAldQ4l033nl6  
Xxrdn5tSWLMSdLPplUFjen3qqzvU9EeZXOKfHqCsX+81swOoMSDd  
gnzN3ZkeLglQpNUwsUQe9Ufl+hk6YagNalxo1AobCEkUzegOxB8/h  
KpIA5FAUbF2bsH5dpCZMwFAg772K/G+8jgRxDHRDASJHRICRI6F  
QGxYsIDYR1QqA2EdUKgNhHVCODYR1QqB6DmMMpkcvhke8dR+Q  
/u05//AA41VU6frLnwJ/Lhj6n/AIEwilNcCjiZeW sHDUVtJsTDulqGBYX  
KqboRcLJC+JDhOVM0kzCkbcIbPIsih5G80k6ehFVMnDzgdTWws2K  
gUM10hTMvMdlFbCdK2ZWU8xiLUDlxkxGYmVE2MWrlZ8O4D8h1R  
02B29ZtYXXQdyonJ5zFRPveLihv9fKV8PPgjYzwZ9HKX09+HVxs98v  
QF6whHl8pDmeole4+c4oZz1jnzRPeZ7cuK1rH8dUOqKh2fbyFfrH5z  
7TahtpJqroWJxb4194z2s1jjIP1Ljid1FHxHtBqLbetk3tc7L/+dZXFwnxA  
+G6UFW2BAa2J54bnkXz8JznSeprgtqChj5sAfpfE3f8A5STVkdJybb/  
Gb8mUmtMeGW7ldxjZdBuGZb5KkV8hUwvvtB9sGyxXDwjrdtQ t68AG  
wagNzfb0MoZXR5ouzeFKs7kC+NxwZxfUsx7bHZxYV7VV7gaSAPnp/  
9jL0t5Zb1qRjqyY463upc1mfAHbxPiOrE/eZNLK5bzYk+nvSqcVVxS6a  
kQMrAlbUNptBd8E2KuwLHaV8LGA r3q00rV5NqHe65UwVdnUEjUA  
RW4IAL6T9Rv5jtPW8pcxhkHXwrkkUwY6S1Fe1nfiRYqAcMTuexUFfu  
sL8weJJh5kqxKgAMKZd9JG1ir4sfKQ87kHTxte3JABP1qAwoavt5xm  
na/KP1kCr27jtEc2boC+w4gRERKjihEBkl6oIQEhFqEBIVFqEBKhUWE  
BKhuWEBKhUw oVAs oVCotQOy6p1C8wy17oUf8AqP7yMYTOCQJl/  
wCILYrNVkn+w/Sb2Tw8VBrYBU7gnf6Ccssspft0Y9PG4+1YHseRIM

TFqaftEBZjW42mHnGLEzpLubccpq2Exc0JX/zAjgytiYZiYeVLGgCZ  
WVk9TbtLW S6liMQqgt8Jd6T9li9FzQ8hz9Z06jLZVdl0g184GS2lygW  
KMovj0TG 5nqLYrmhQvb4SZhpq6gW Mvh3zKH2hcoihWosdwPeoD  
t6XL+DmQKmH1py2KxPGwX4Dy+dyZXTW OPdW RgYW o6SwUVZJ  
4/Dk7xMxjM5tjZG 19z5XHPHF4RPZf8Ad9B/eNlxsRhy05jvat5xThfH  
6f7w0eo/L841DeUIMVvOL7Voow/P8ZMuEPMfW TU+LLI9R JrPAIjDy  
7n1+H95KmG3ZT/vL3T8m7t2A9TQHxk01uz9W +IJmcNPCToJBIVtJ  
JAPpckynT0bZi2G5B0sFDJYPBHK95q5rOpW hswiKu1BIB22B5v/j5S  
xls5IF4xkv8AqcfhZmpjpm3biW yehmR10rYEUQRyx2+XMrZZ3DaFq  
2IHZDAij2Nj8TPQuv4YfA1q1MnitTyB2sfGx5TgXypugw8xfh3JqgTse0  
rCsFNE+VX+Mcr0pUXuRfkQ OXHoY7EXC2qx5ttsLJo7eX9vjlmSu4PH  
HexcBHUUdfnY8vL4xhjnrTxG gQGmIY6JAbUSo6EKbUKiwgJUKiwgJ  
USo6EBtQq0hCG 1Co6EKbUKjoQNLJ3Y3m6hJFE3233mBljU3Mq2w  
nHKe3pwvpUzWN7IBDualB8zqj+tvb/ATPDGdMeHnz/1V0Ed5o5Hq  
KJ93eYQMmRfKaZb2Y+0z1SCpl4eM+K+pzZINKMuZLwi4GnhYQ5kr  
4ZY8xcqwcesfhtpMipMPpjc3JMTJo40sNx+smHUQBRIFs+Ne+1jYz  
HU4bw5QYvRBR0t9ZUx0luu9W PSbyZgERwecd3677cm+Cw5BkDJ  
6TsXS+VBlf/CJdIR6zXdYm5XKez8oJlifuVOpXMph+Q3ld8hh8x5Kz24  
svL5FTVu3PY/j+E1cp0zBAsgvYOzMSL9R9fqI/L5B05PH7/frNDB6cir  
7xP8AtLM7W pMYky2BhUNKJ8IAhshnODqw0I7qPz57RmW yiDvx+/  
0I5Aqj0HntLLS3Fh5ro+EisUZgTRXDLnTyCwA7nnmYjppYee9jgiiRUP  
tFmDiZhtG4VQBXat7+pjXxS9Pw/Djg6v5q8iPLuDOkcMtW qG JgkA87  
DYk8DuteW 5IUmahYNsZVx8sZW VQwislkoSEW JASoRYVASoVFqF  
QEqFRahUBKiVHVCoDahUdUKgNqFR1QqA2oVHVCofrBM18s5qZO  
CJq4A2nPJ2wZXUjbmVhLebwiXO0YmTYmqm5w5Zc1EKj0ciTv09hz  
JEwfCR3lQ3BGqr4mghUbdpQywsV5S2o23gSvhFN000sZXMhueZ  
Uy+YrYwx0HK7GQX2W 5DmcqGFH5Edo3LZscNzLGZcKhbsBcKxW  
ZONEkfkfUSfC6gw73MvGxWY6id/3tEGIZzvTjrj1PrfXqhHaKvUIPvCY  
Qxovtpjx1ruxbpzqfveMfNpMX28Q40eNO7FtdqAHAEmHVxzpH0/Sc  
97WL7f1l8dTuxdbl+p4Z+6R8Nh+ctJ1FB+nJ/OcSjsxpQsfQS+uVcVd  
3vt2+ZlmORcsWlmcRLcr7z7MfSZ7pGK5Hx7x7v0m00o5ZXdVH2M  
ITMbUYez1GgNzxLadHrd3AHpv+J/sZUZ2KitxKTJU6NcrhK1VqJG2p  
iRfyoVtEwArGgqKSOKC2Kvmub84XTnITo3SwRp3q9LE1z2PwJ49P  
KLmMFHQLoAJoE7EgA70dy3x9Y2ac3CXs1IFABQMASB4/Ot/l6+sq  
YmGVNH6jg+oMqGQhUKgEIVCoBCFQqAQhUKgEIVCoBCFQqBcy3  
M0I4EITnk7YpZKnIhCbnDleS4/EopyYQlSquW98y2P1hCAzN9pJ2EIS  
CHNfdlw/wW/wC0whKOeMF5H77whAbFhCARydosIDk5Ecn7/CEIH



RdEHhP77yU+6/xH5xYS3gjK6h/Ff4j8hI80EJmcLeU2V98fP8povw3  
wb/8AUWEEZTdv+7C/WU88x1tv5fpCEKv9KN6r3oGvTcceUs5BiStm  
+fzaJCScJeVjB/iuO2obdu3aZuGgrE2GwNeni7eUWEoxDCEJUJFhC  
AQhCAQhCARIQgEIQgf/2Q==">







</td>

<td>









</td>

</tr>

</table>

<center><font color="white"> <h2>FOOD PHOTOGRAPHY  
CONTEST!!</h2></font></center>

<font size="5"><font color="white"> Its time to showcase your  
talent in food photography !(Make sure it makes the judge's mouth  
water!;!;))</font><br>

<font color="white"> ELIGIBILITY CRITERIA: Open to  
all!</font><br>

<font color="white"> COPYRIGHTS AND USAGE  
RIGHTS: Copyrights and ownership of the works are retained by the  
photographer.

The participating images will be available to Delish to access  
and can and only be used for advertisement and marketing purpose  
but by providing adequate credits to the photographer.</font><br>

<font color="white"> DEADLINE: 15th November  
2021</font><br>

<font color="white"> Enter your email id and submit your  
work as jpg/jpeg files using the submit option below.

You will be contacted through the entered email if your work is  
selected for the next round.

Details of further rounds will be intimated to the selected  
candidates through emails.</font><br>

<form action="thxhome.html">  
<font color="white"><h3>ENTER YOUR MAID ID</h3>  
<input type="email" value="enter your mail"  
name="email"><br>  
<h3>SUBMIT YOUR FILE HERE</h3>  
<input type="file" value="pic" name="picture">  
<input type="submit" value="submit"  
name="submission"></font></font><br><br></form>

```
<table style="background-color: black;";align="center"
width="100%" height="50">
  <tr>
    <td>
      <center><font color ="white"> FOLLOW US ON </font></center>

    </td>
  </tr>
</table>
</body>
```

## COMPANY BACKGROUND

Swecha is a non-profit organisation formerly called as Free Software Foundation Andhra Pradesh (FSF- AP) later changed name to Swecha. It is a Telugu Operating System released in the year 2005, and is a part of Free Software Movement of India

(FSMI).The organisation is a social movement working towards educating the masses with the essence of Free Software and to provide knowledge to the commoners.

Swecha aims at providing global software solutions to the local people with the Free Software development model by working together with the community of developers and users all over. The prime objective of Swecha OS is to provide a complete computing solution to a population that speaks and understands only Telugu.

## **RESPONSIBILITY & WORK COMPLETED**

The responsibilities of a project manager include:

1. Planning the project

2. Creating a schedule and timeline
3. Executing each phase
4. Managing the budget
5. Serving as the liaison among all stakeholders
6. Troubleshooting And maintenance.

## **SKILLS LEARNED & EXPERIENCE GAINED**

- From the four weeks of internship we have learnt HTML,JS and CSS.
- We also learned Basics of Python and Web Architecture.

- We learned how to divide and manage the work and learn from each other. Team management

## **CONCLUSION**

In previous people use to display the cooking items in the newspapers ,books,magazines etc. If they want to know about any

new items then they used to search books ,articles ,newspaper and ask others.As these will be manually and people use to face difficulty in sharing their information.The sharing of the cookie items makes the problems for common people ,business ,hotels also.

We are creating a application which will be hosted in web. so everyone can access the details from anywhere of the world. So this makes easier to everyone. The Cooking Recipe Management System application is the website will be hosted in internet.

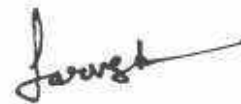
From our website we can solve the issue which are existing in the previous time. By these website we are going to make or bring different kind of food items in one place and make the user to share their knowledge to other and know about the different food items

# Certificate of Training

**Usama Ahmed**

from Chaitanya Bharathi Institute of Technology has successfully completed an 8-week online training on **Web Development**. The training consisted of HTML, CSS, Bootstrap, DBMS, PHP, JS, React, and Final Project modules.

Usama is a top performer in the training.  
We wish Usama all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-19

Certificate no. : 97589A2B-9B56-04DA-6306-28B2C91E442E

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)



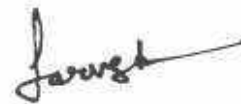
# Certificate of Training

**VALLAMALLA SHIRISHA**

from CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

In the final assessment, VALLAMALLA SHIRISHA scored 41% marks.

We wish VALLAMALLA SHIRISHA all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-24

Certificate no. : E4240B6F-6848-FB49-69B8-012D26578F4F

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)


# Certificate of Training

**VALLAMALLA SHIRISHA**

from CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

In the final assessment, VALLAMALLA SHIRISHA scored 41% marks.

We wish VALLAMALLA SHIRISHA all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-24

Certificate no. : E4240B6F-6848-FB49-69B8-012D26578F4F

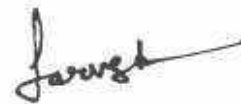
For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)

# Certificate of Training

**Rasuri Nihal Kumar**

from CBIT - Chaitanya Bharathi Institute of Technology has successfully completed a 6-week online training on **Data Science**. The training consisted of Introduction to Data Science, Python for Data Science, Understanding the Statistics for Data Science, Predictive Modeling and Basics of Machine Learning, and The Final Project modules.

In the final assessment, Rasuri scored 64% marks.  
We wish Rasuri all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-02-11      Certificate no. : 0AF6D09D-37B4-29AA-B2D4-66C2045ADDCD

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)

# Certificate of Training

**Golla Mohan Krishna**

has successfully completed an 8-week online training on **Web Development**. The training consisted of HTML, CSS, Bootstrap, DBMS, PHP, JS, React, and Final Project modules.

In the final assessment, Golla scored 86% marks.

We wish Golla all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-02-05      Certificate no. : F95BDE35-5F2C-7898-C69A-C9A0328B894A

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)

*Swecha*

## Certificate of Internship

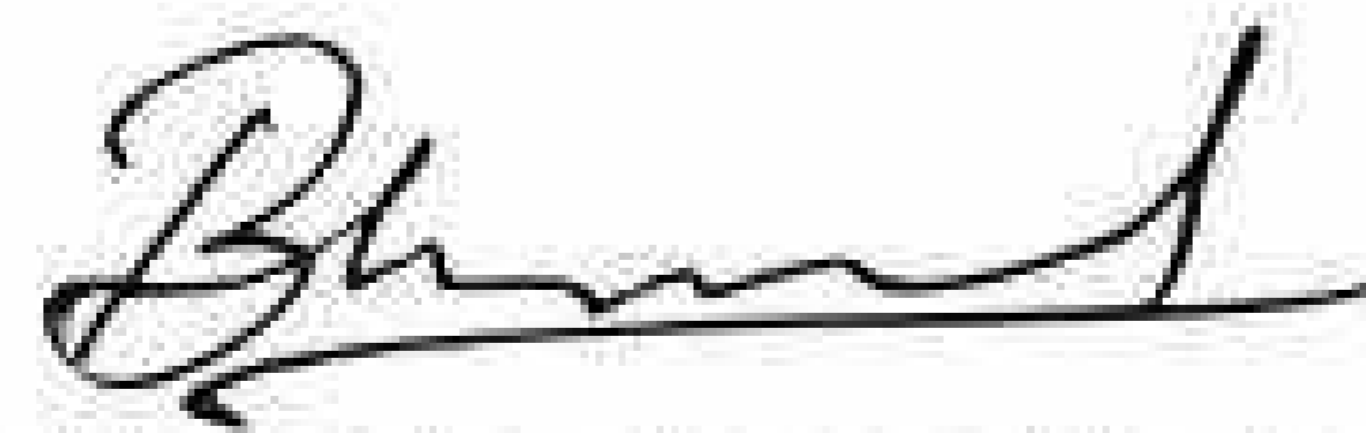
This is to certify that

**Afifa Fatima Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

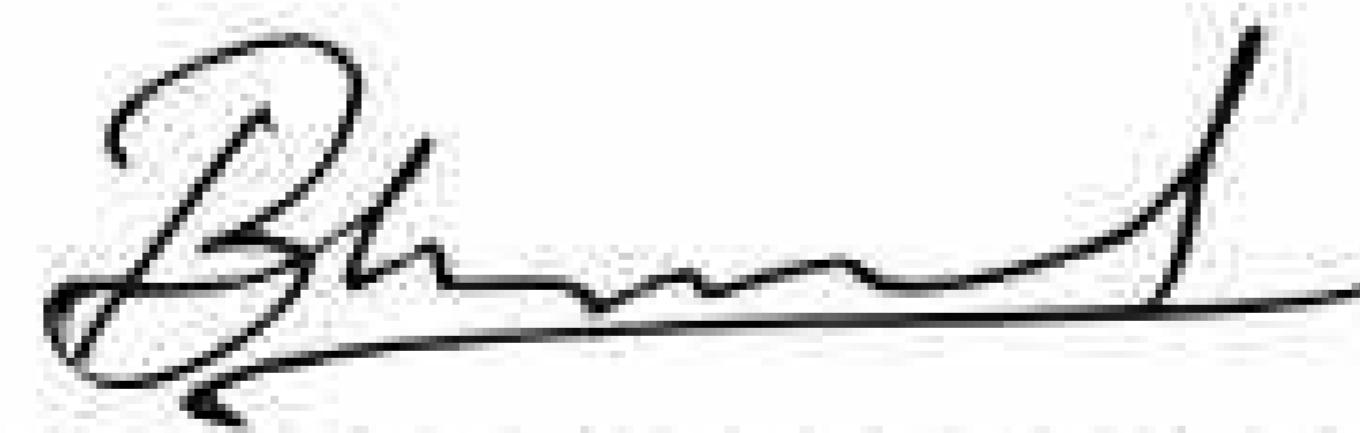
This is to certify that

**Archana Bondapalli**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

Roll No: NPTEL21CS86S43635728

To  
HARIKA DASARI  
FLAT NO.202,SAI MAYURI RESIDENCY  
GANDHI NAGAR,RTC CROSS ROADS ,HYDERABAD  
HYDERABAD  
TELANGANA - 500072  
PH. NO :9063771124

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



**No. of credits recommended by NPTEL:2**

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**HARIKA DASARI**

for successfully completing the course

**Big Data Computing**

with a consolidated score of **40** %

Online Assignments	10.33/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **1394**

*6/1/21*

*Satish*



## Certificate of Internship

This is to certify that

**Mitali Singh**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.

A handwritten signature in blue ink, appearing to be "Bhargava", written over a horizontal line.

**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



  
*Swecha*

## Certificate of Internship

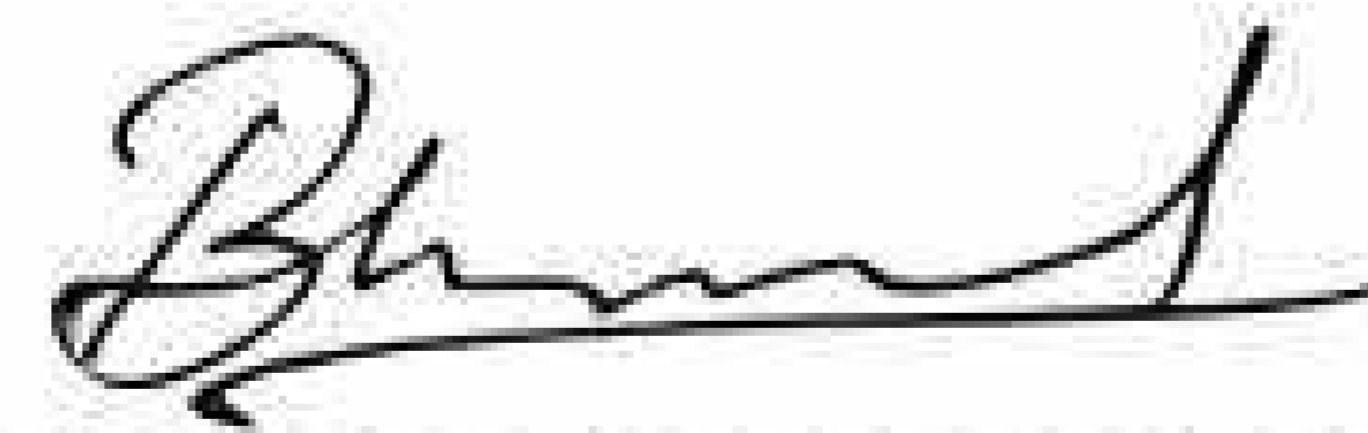
This is to certify that

**Mitali Singh Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

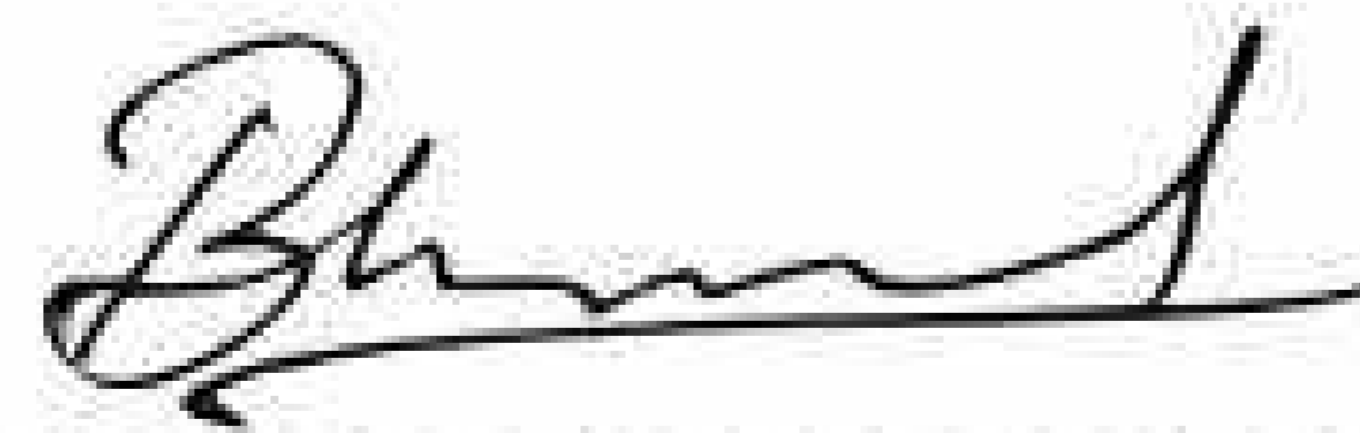
This is to certify that

**MANDADI MOKSHITHA Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

This is to certify that

**Parnashri Nandam**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

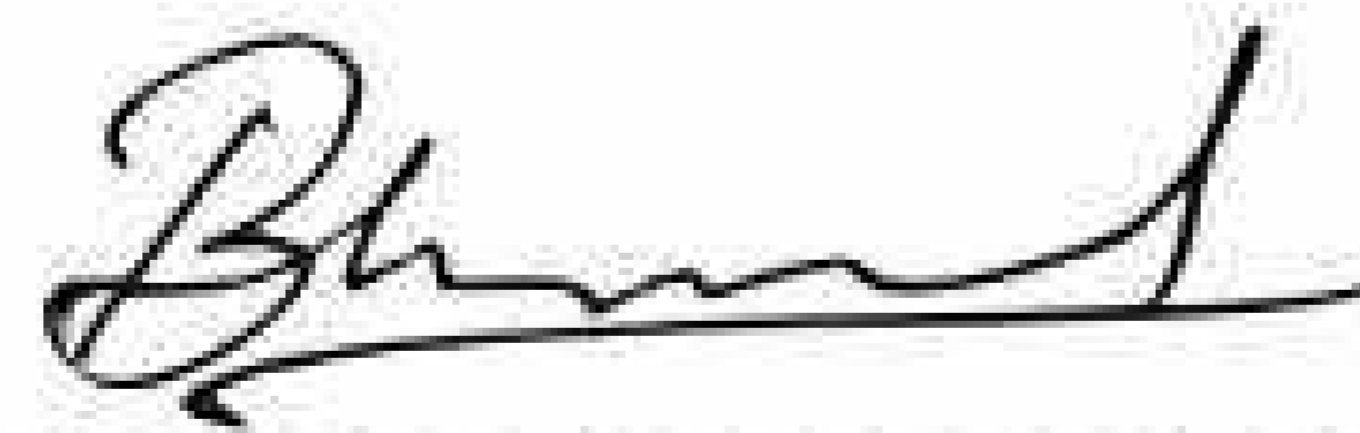
This is to certify that

**Pranava Gayathri Aavuti**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

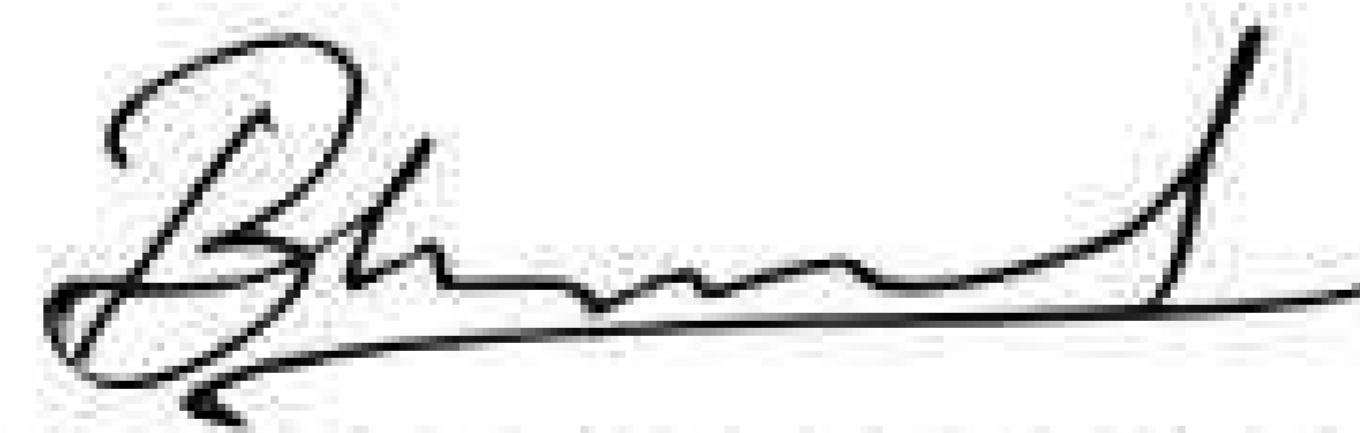
This is to certify that

**J PRERANA Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

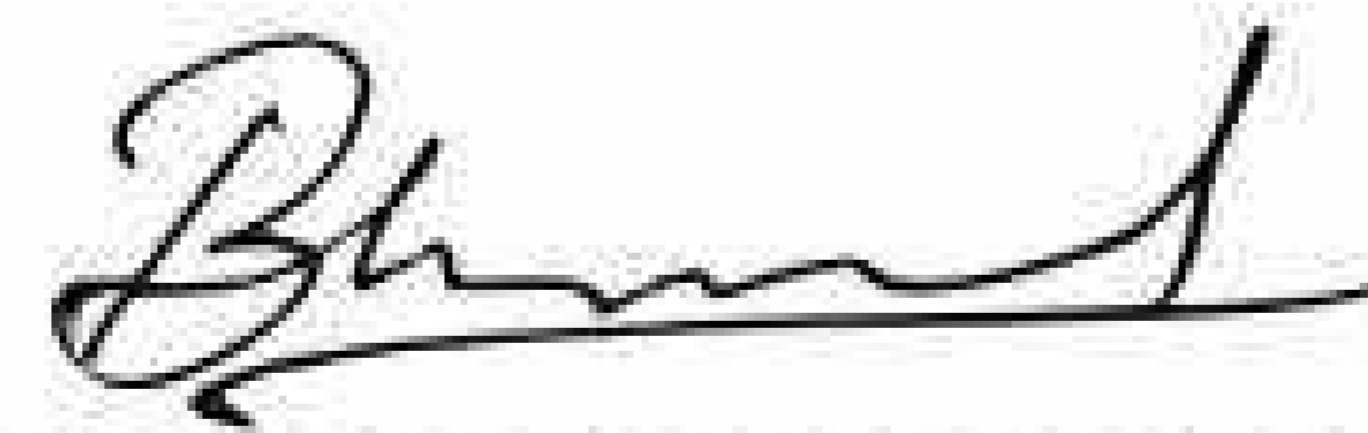
This is to certify that

**Rishitha Reddy Gudipati**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

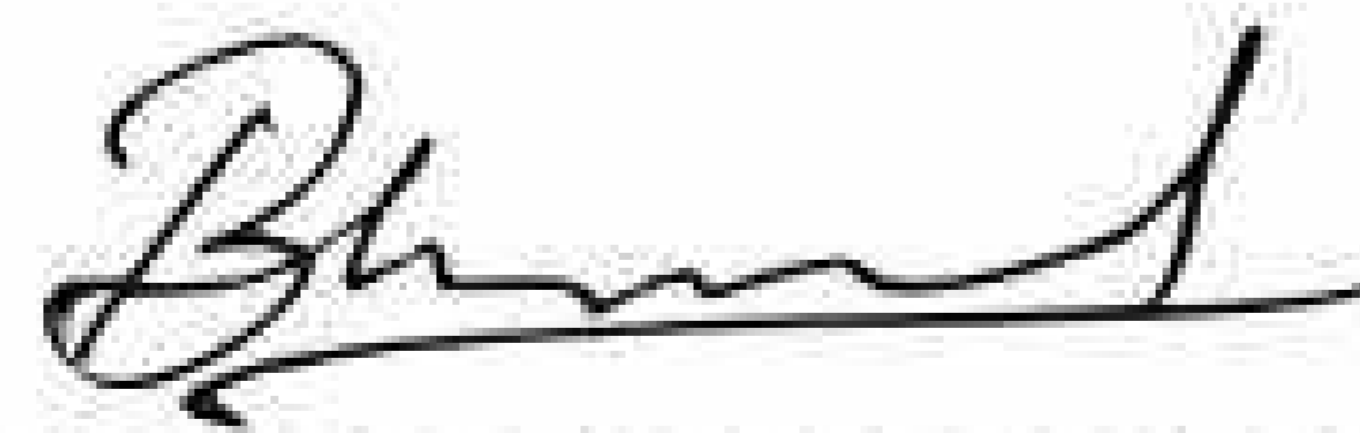
This is to certify that

**Sannihitha Navuluru**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13630798

To  
KARIPA SATHVIKA  
H NO. 2-34, CHITTAPUR, DUBBAK  
H NO.12-13-21/11,SIDDIPET,PIN-502103  
SIDDIPET (DISTRICT)  
TELANGANA - 502108  
PH. NO :7993372411



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**KARIPA SATHVIKA**

for successfully completing the course

**Programming in Java**

with a consolidated score of **75** %



Online Assignments	24.6/25	Programming Exam	25/25	Proctored Exam	25/50
--------------------	---------	------------------	-------	----------------	-------

Total number of candidates certified in this course: 2632

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur





*Swecha*

## Certificate of Internship

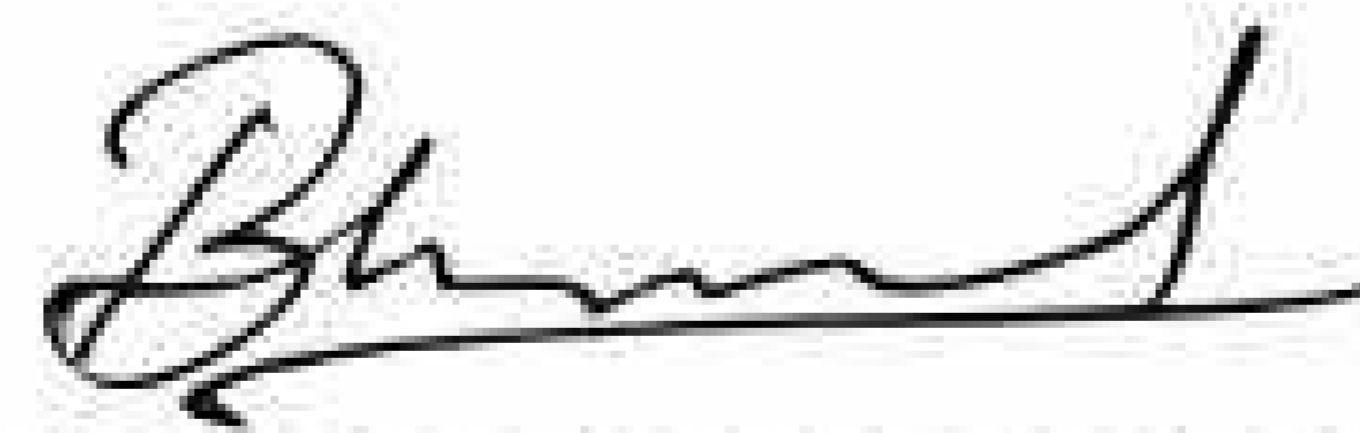
This is to certify that

**SATHVIKA PAPISHETTI**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

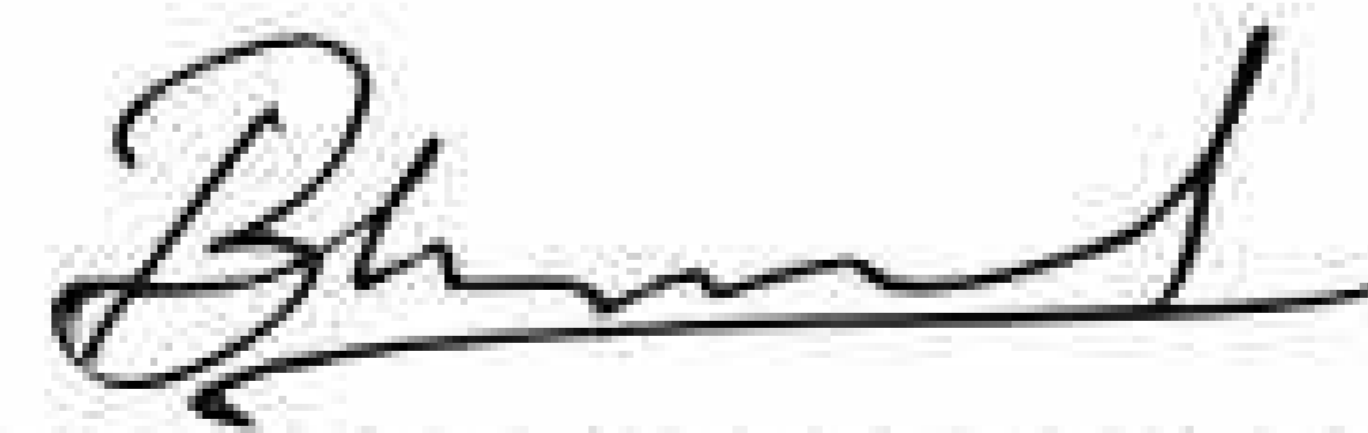
This is to certify that

**Sheeba Manukonda**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

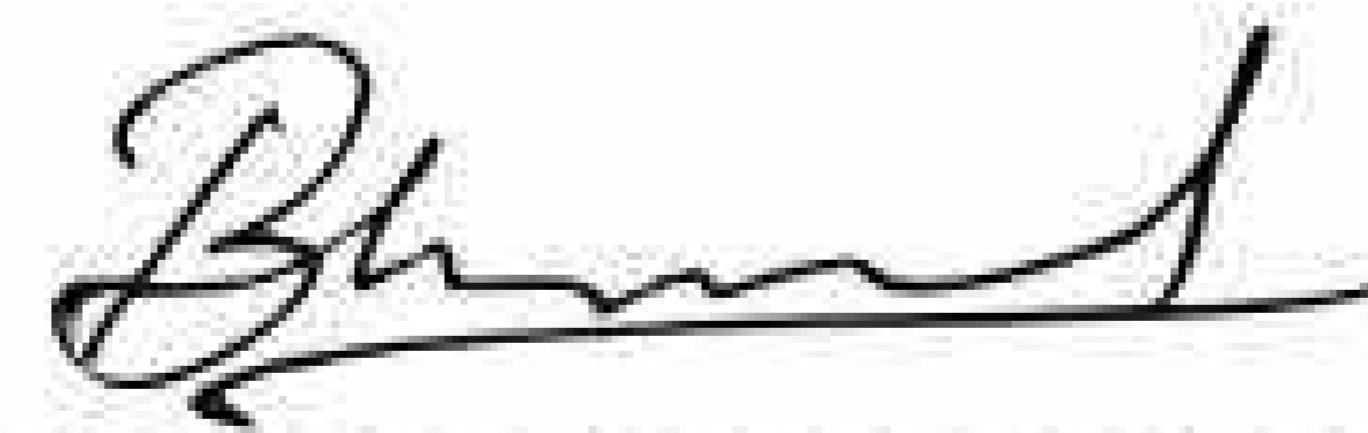
This is to certify that

**Sheeba Manukonda**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

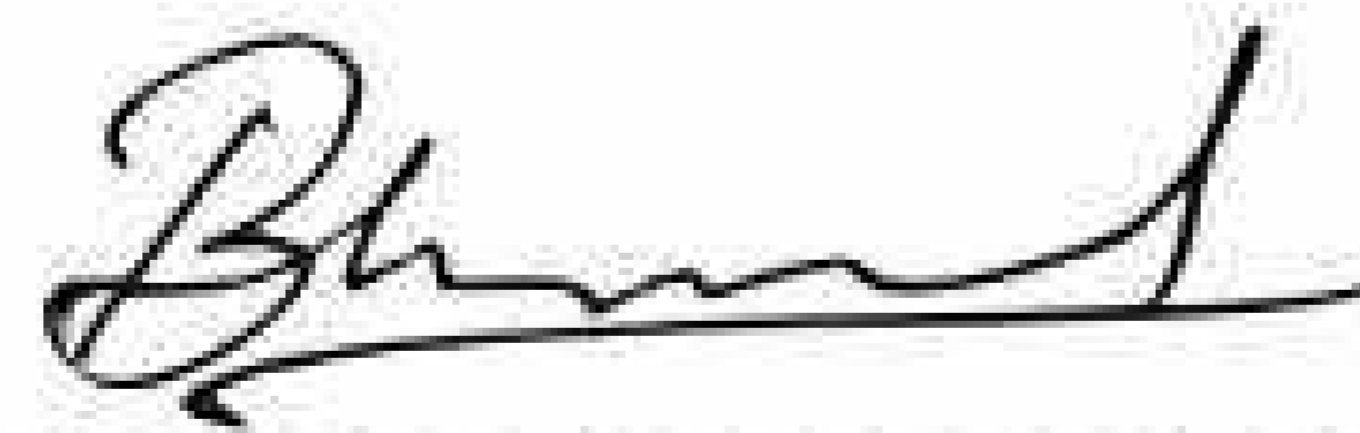
This is to certify that

**Sheeba Manukonda**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

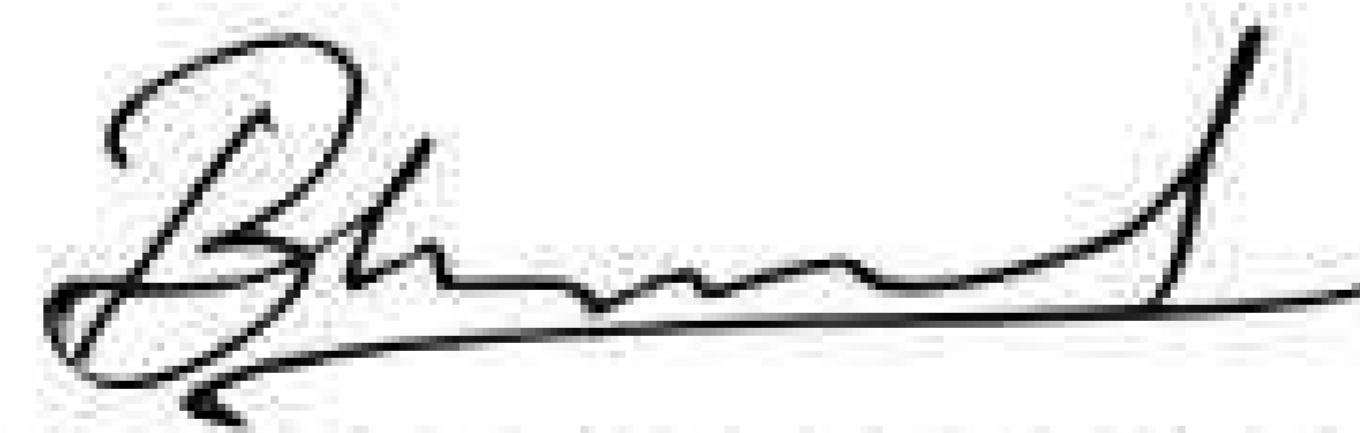
This is to certify that

**Sheeba Manukonda**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13633331

To  
SHRESTA GUPTA V  
EDEN-B 510, LODHA CASA PARADISO  
SANATHNAGAR, HYDERABAD  
HYDERABAD  
TELANGANA - 500018  
PH. NO : 8897704989



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**SHRESTA GUPTA V**

for successfully completing the course

**Programming in Java**



with a consolidated score of **90** %

Online Assignments	24.06/25	Programming Exam	25/25	Proctored Exam	41/50
--------------------	----------	------------------	-------	----------------	-------

Total number of candidates certified in this course: **2632**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



*Swecha*

## Certificate of Internship

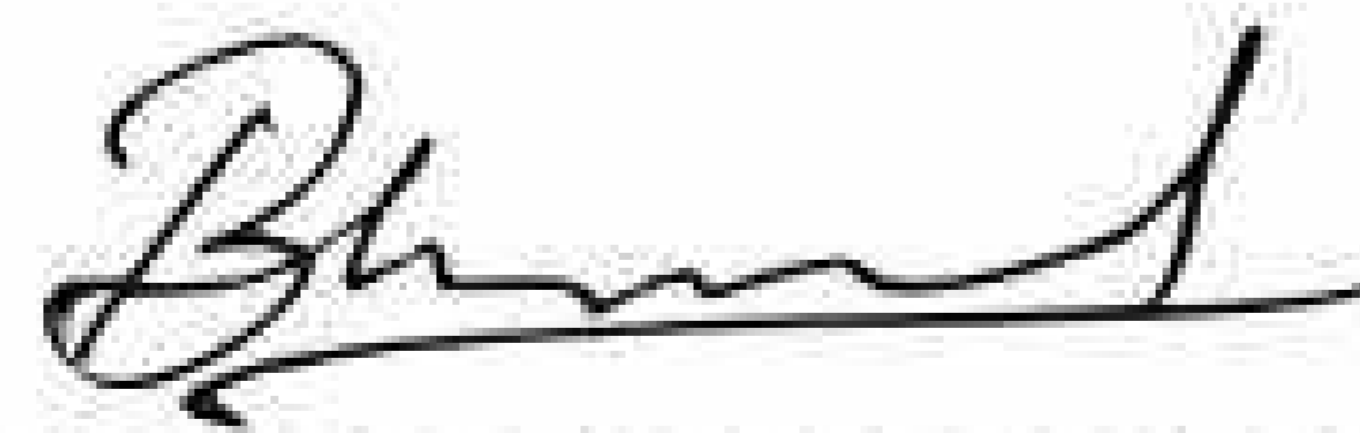
This is to certify that

**A M Snigdha**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13633379

To  
SREEJA PAKA  
H.NO.19-10-252/1-A-1  
RUDRAMANAGAR ROAD NO.03 SHAMBHUNIPET  
WARANGAL  
TELANGANA - 506002  
PH. NO :6304040348



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**SREEJA PAKA**

for successfully completing the course

**Programming in Java**

with a consolidated score of **78** %

Online Assignments	24.5/25	Programming Exam	25/25	Proctored Exam	28.5/50
--------------------	---------	------------------	-------	----------------	---------

Total number of candidates certified in this course: 2649

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur





This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13633089

To  
SREYA REDDY ADDULA  
H/NO. 7-5-200/13  
LAXMI NAGAR COLONY ROAD NO.4  
MAHBUBNAGAR  
TELANGANA - 509001  
PH. NO :8074266479



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**SREYA REDDY ADDULA**  
for successfully completing the course  
**Programming in Java**

with a consolidated score of **84** %

Online Assignments	24.31/25	Programming Exam	25/25	Proctored Exam	35/50
--------------------	----------	------------------	-------	----------------	-------

Total number of candidates certified in this course: 2632

  
Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

  
Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No:NPTEL21CS56S13633089

To validate and check scores: <https://nptel.ac.in/noc/>

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13630774

To  
BERUGU SRI SANJANA  
HNO 8-71/3 ,RAMAYAMPET  
HNO. 3-300001 ,RAMAYAMPET  
MEDAK DISTRICT  
TELANGANA - 502101  
PH. NO :7989071538



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**BERUGU SRI SANJANA**

for successfully completing the course

**Programming in Java**

with a consolidated score of **82** %



Online Assignments	24.6/25	Programming Exam	25/25	Proctored Exam	32/50
--------------------	---------	------------------	-------	----------------	-------

Total number of candidates certified in this course: **2632**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



*Swecha*

## Certificate of Internship

This is to certify that

**Sruthika Bachu**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS86S33634564  
To  
TEJASWI KOPPISETTI  
BLOCK-1, 902  
MY HOME AVATAR, NARSINGI  
HYDERABAD  
TELANGANA - 500089  
PH. NO :919390300868

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**TEJASWI KOPPISETTI**  
for successfully completing the course

## Big Data Computing

with a consolidated score of **64** %

Online Assignments	23.88/25	Proctored Exam	40.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 1394

Prof. Rajesh M. Hegde  
Chairman, Centre for Continuing Education  
IIT Kanpur

Aug-Oct 2021  
(8 week course)

Prof. Satyaki Roy  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



*Swecha*

## Certificate of Internship

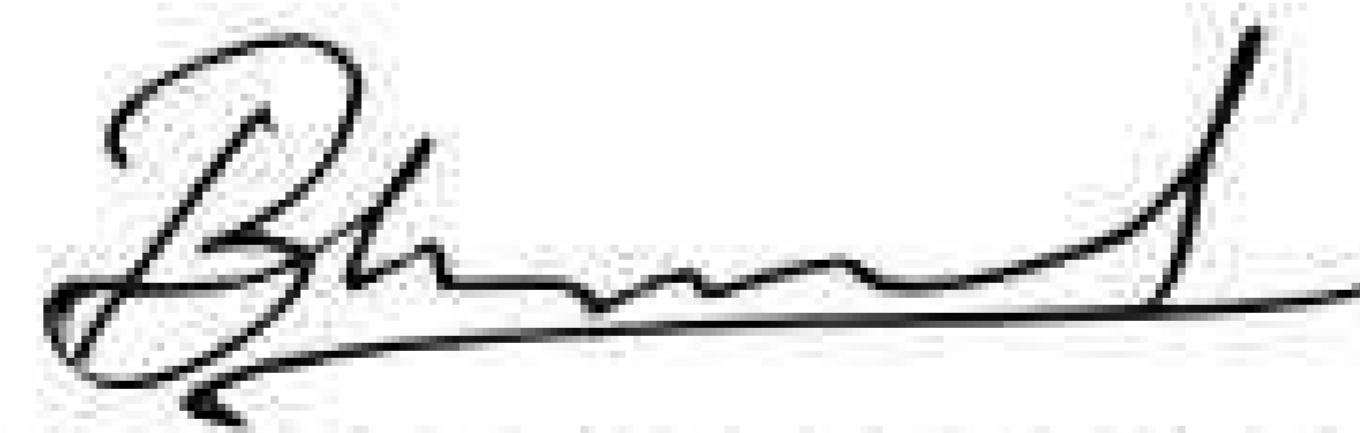
This is to certify that

**VARSHITHA MINUMULA**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

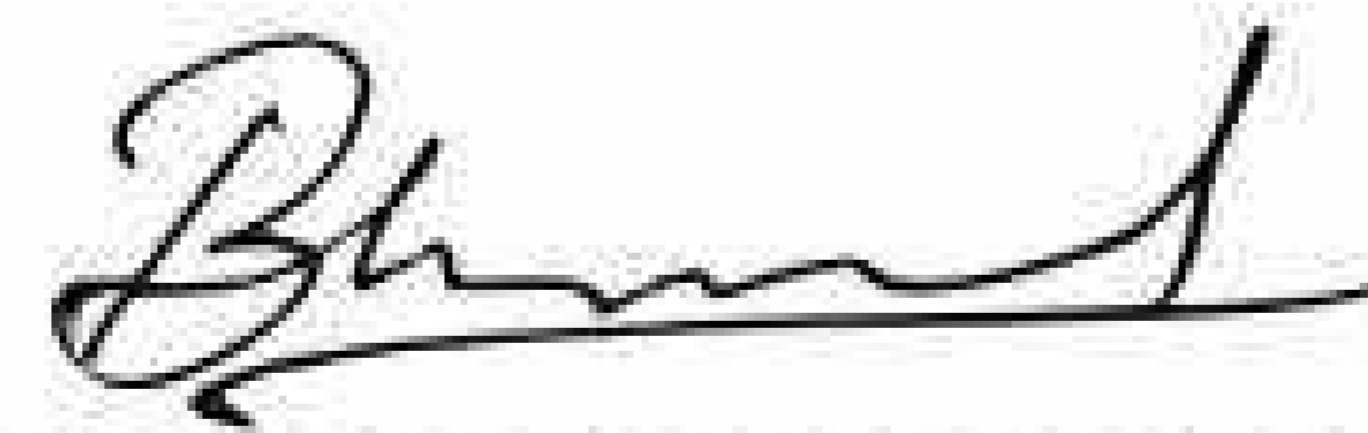
This is to certify that

**ABHINAV TEJ NAIK MUDE CHOWHAN**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

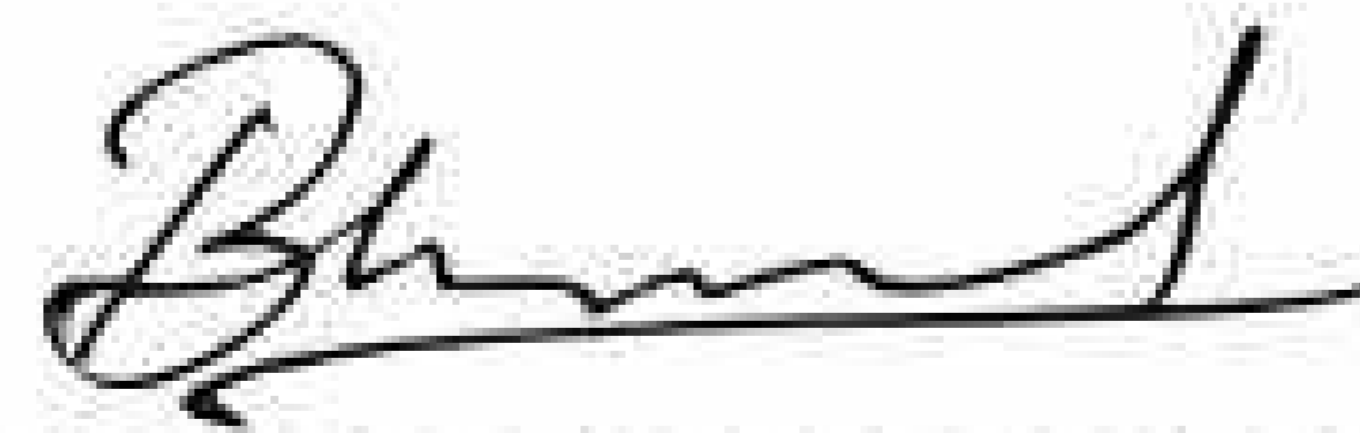
This is to certify that

**Desai Aditya Koushik**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

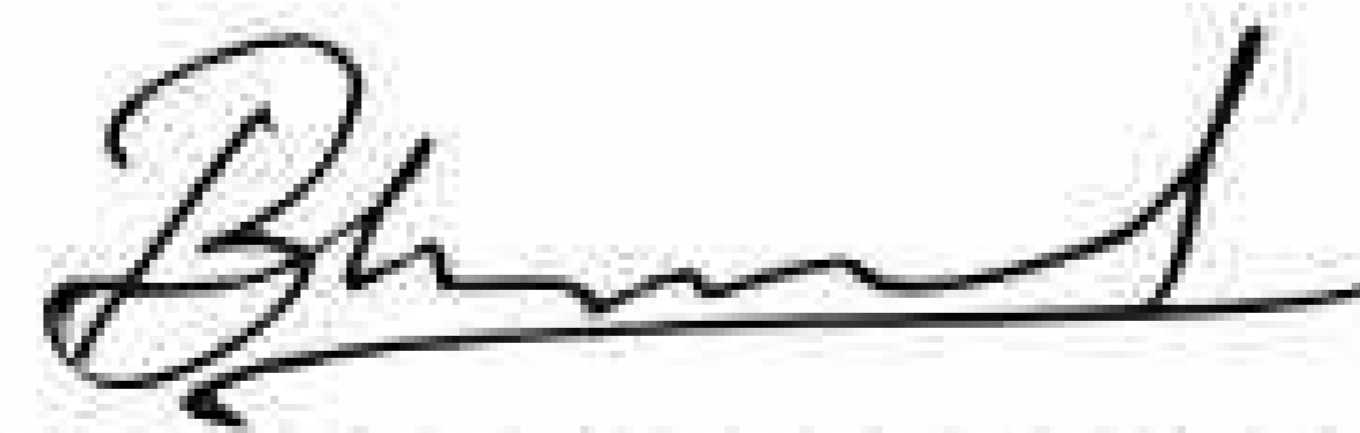
This is to certify that

**Balveer kain Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



*Swecha*

## Certificate of Internship

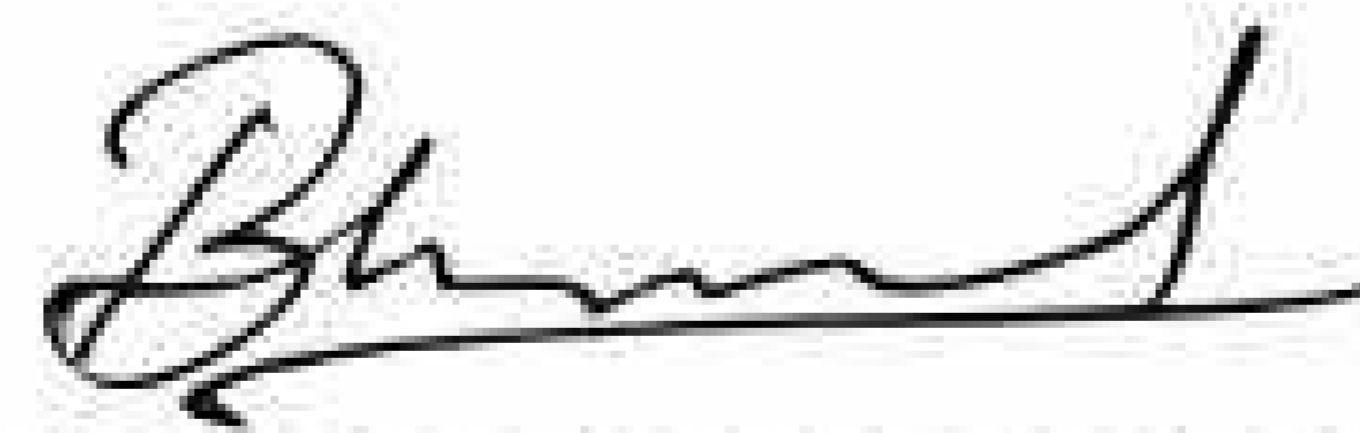
This is to certify that

**Chandra Shekar Reddy P**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

# Certificate of Training

**V Siva Chetan Reddy**

from Chaitanya Bharathi Institute of Technology (A), Hyderabad has successfully completed a 6-week online training on **Data Science**. The training consisted of Introduction to Data Science, Python for Data Science, Understanding the Statistics for Data Science, Predictive Modeling and Basics of Machine Learning, and The Final Project modules.

V Siva Chetan scored 100% marks in the final assessment and is a top performer in the training.

We wish V Siva Chetan all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-03-12      Certificate no. : DF720DCC-333A-13E9-3728-24C2AD7F88C2

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)

*Swecha*

## Certificate of Internship

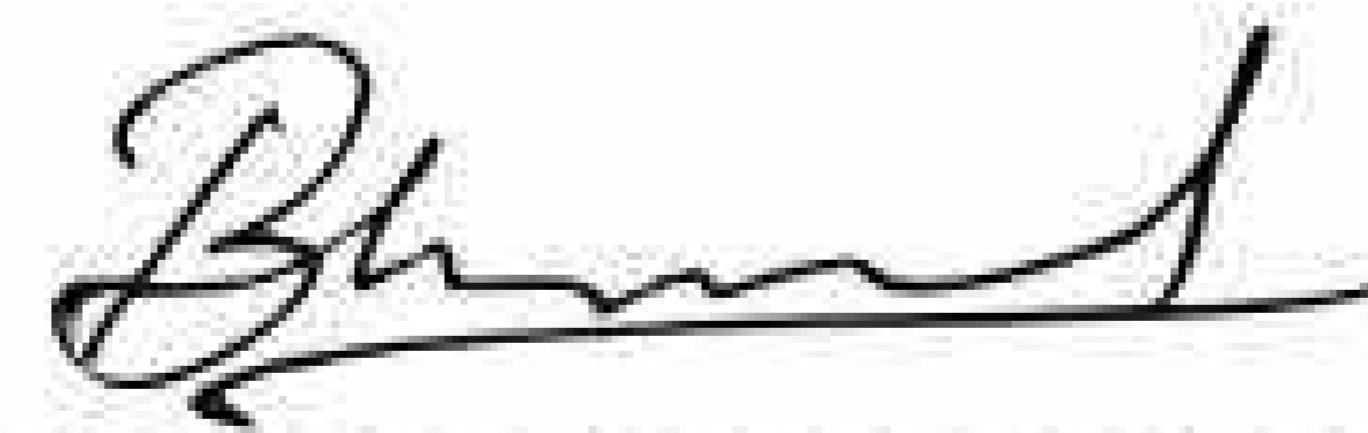
This is to certify that

**GOWTHAM SAI MADALA**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

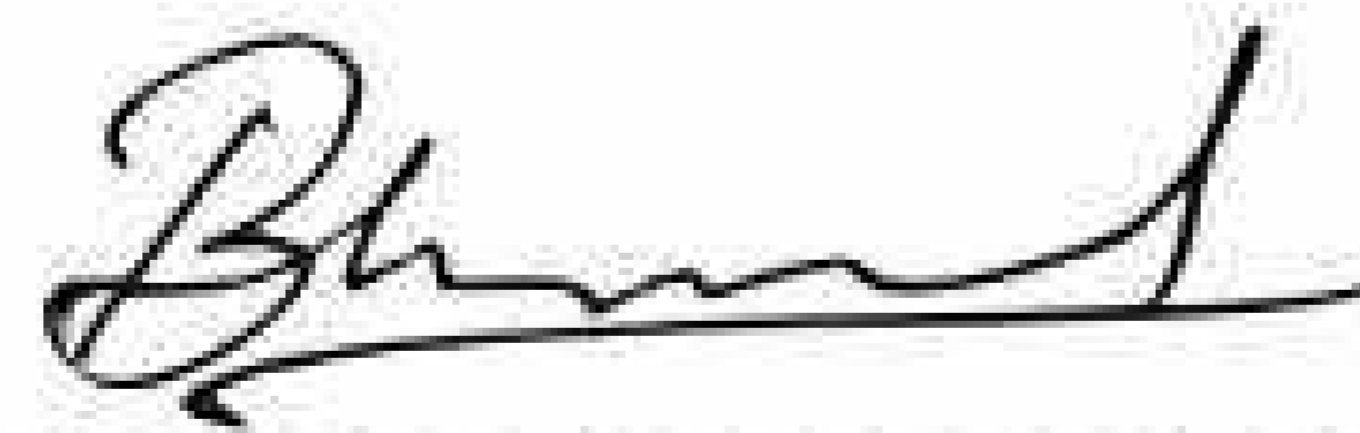
This is to certify that

**Harshit Chokda Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13630726

To  
SANGEM KASINATH  
4-25,SOLIPURAM  
THIRUMALAYAPALEM,KHAMMAM  
KHAMMAM  
TELANGANA - 507161  
PH. NO :9676905136



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**SANGEM KASINATH**

for successfully completing the course

**Programming in Java**

with a consolidated score of **84** %



Online Assignments	24.6/25	Programming Exam	25/25	Proctored Exam	34/50
--------------------	---------	------------------	-------	----------------	-------

Total number of candidates certified in this course: **2649**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



*Swecha*

## Certificate of Internship

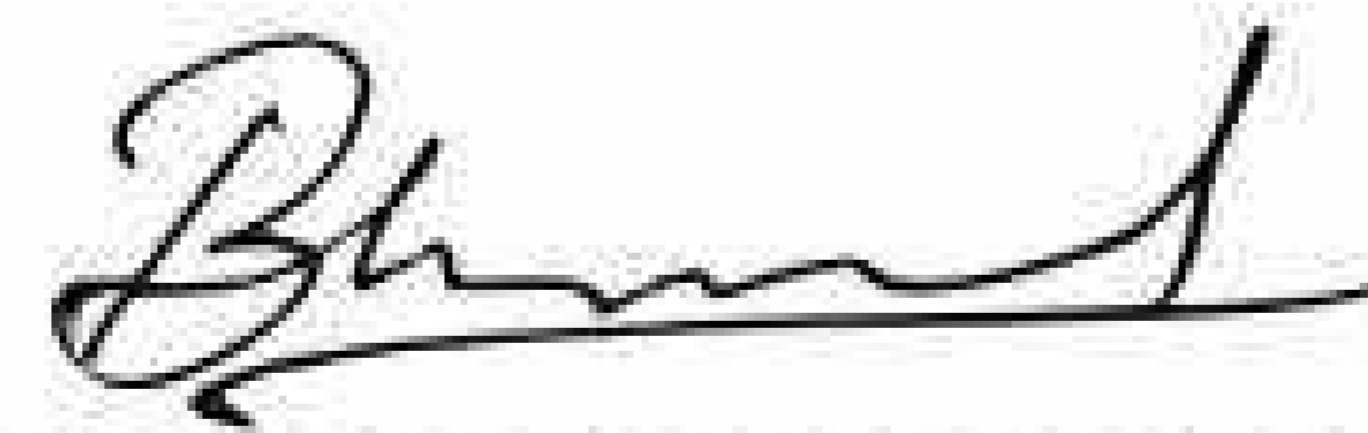
This is to certify that

**Ranga Kowshik**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

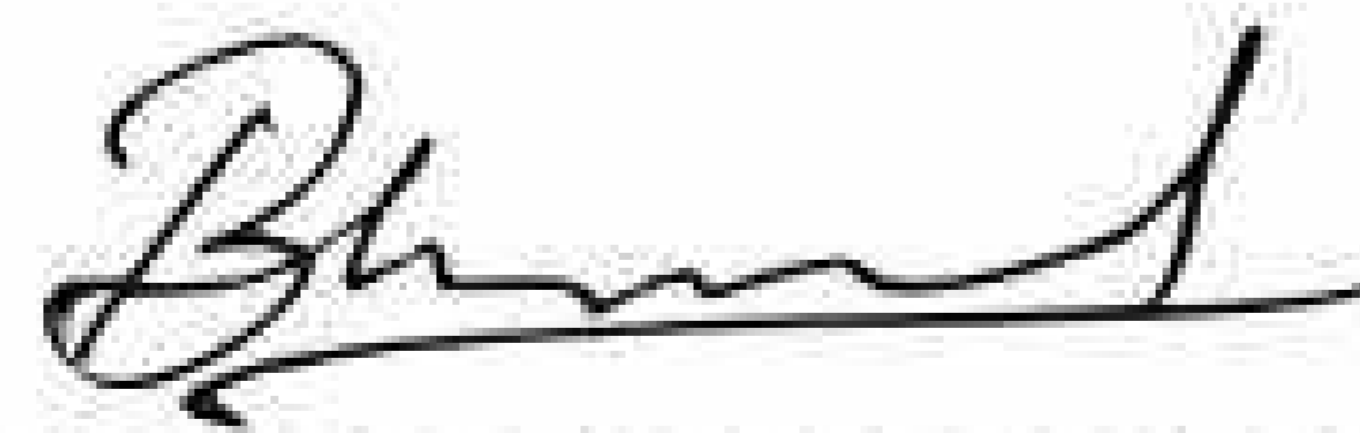
This is to certify that

**Ranga Kowshik**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

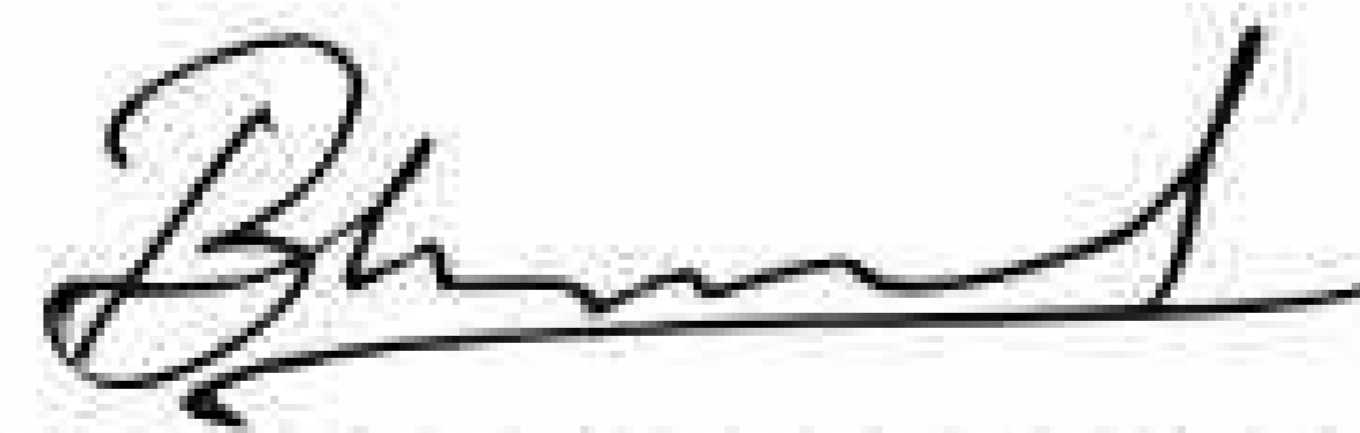
This is to certify that

**Kundan Sai Kotta**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



*Swecha*

## Certificate of Internship

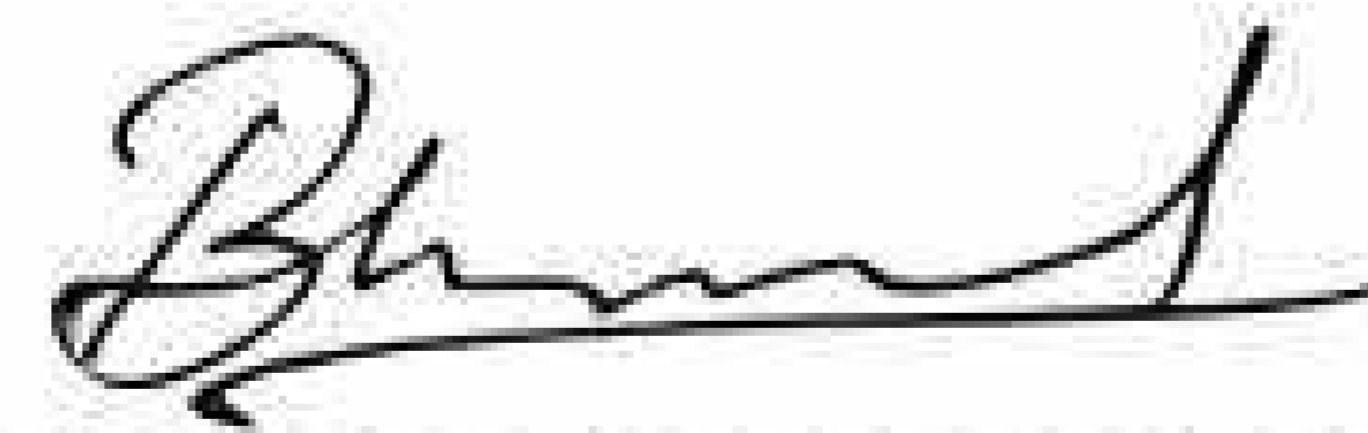
This is to certify that

**Likhith Sai Valluru**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

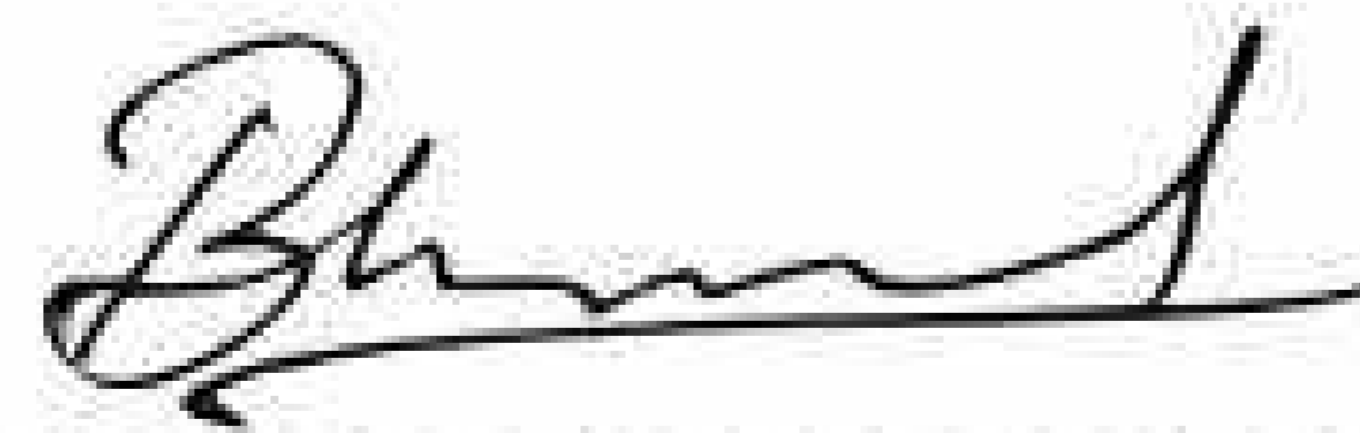
This is to certify that

**Likhith Sai Valluru**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

This is to certify that

**Madireddy Sai Siddarth Reddy Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

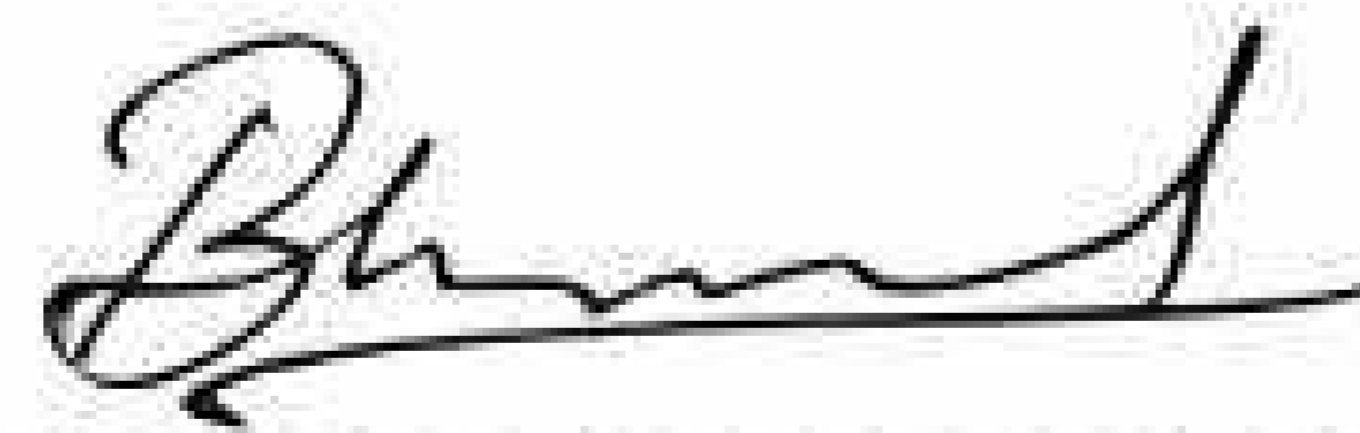
This is to certify that

**Manav M**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

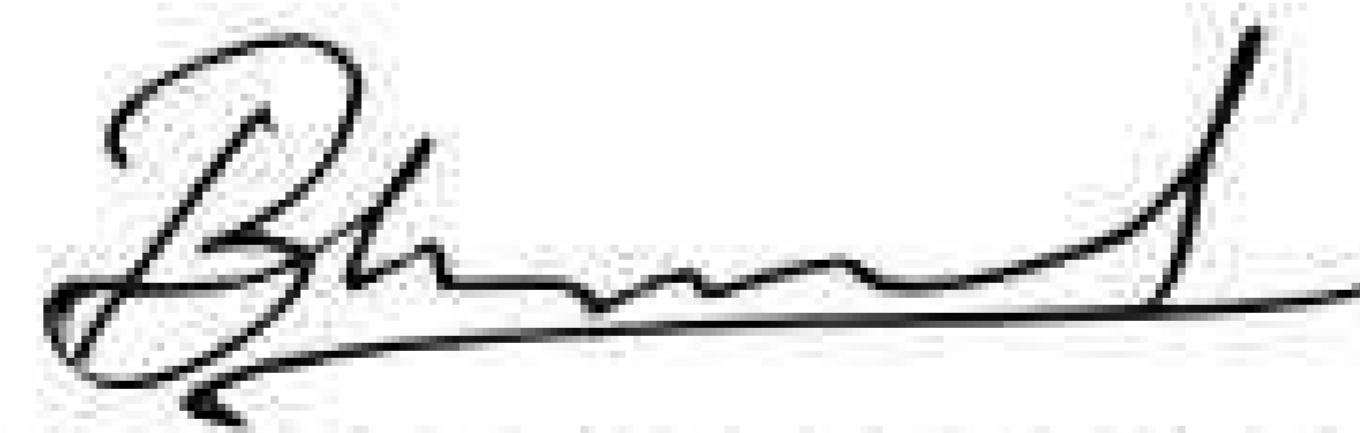
This is to certify that

**Mohammed Abdur Rahman**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

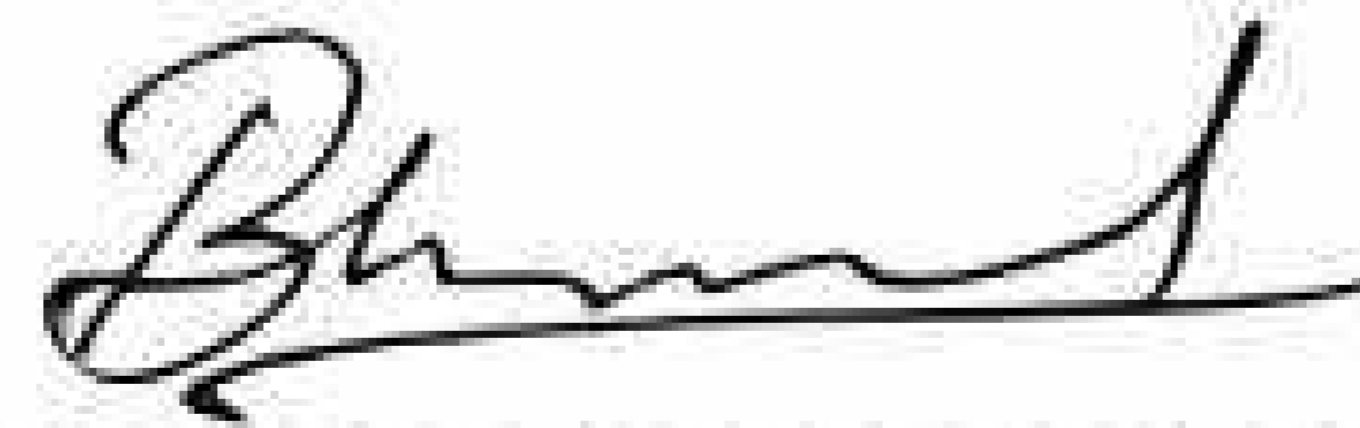
This is to certify that

**Mohd Shoeb Ahmed**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

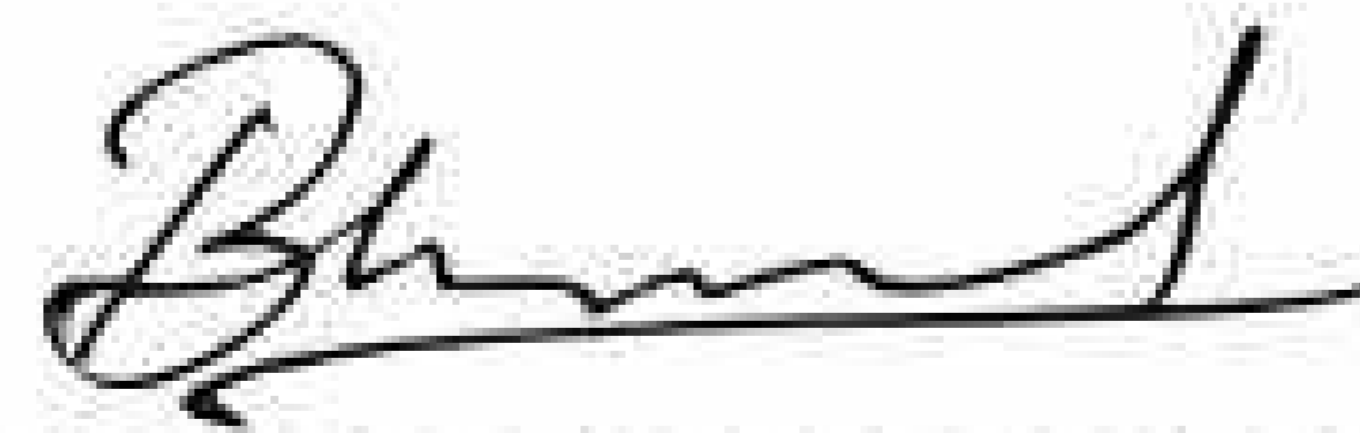
This is to certify that

**Mukesh Patel**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13633402

To  
RYAKAM NAGA LALITH  
H NO-16-11-317/307  
TURABIS ARCHIES ENCLAVE, MOOSARAMBAGH  
HYDERABAD  
TELANGANA - 500036  
PH. NO :9704784743



Score	Type of Certificate
$\geq 90$	Elite+Gold
75-89	Elite+Silver
$\geq 60$	Elite
40-59	Successfully Completed
$< 40$	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**RYAKAM NAGA LALITH**  
for successfully completing the course  
**Programming in Java**



with a consolidated score of **82** %

Online Assignments	24.22/25	Programming Exam	25/25	Proctored Exam	32.5/50
--------------------	----------	------------------	-------	----------------	---------

Total number of candidates certified in this course: 2632

  
Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

  
Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21CS56S13633402

To validate and check scores: <https://nptel.ac.in/noc/>



*Swecha*

## Certificate of Internship

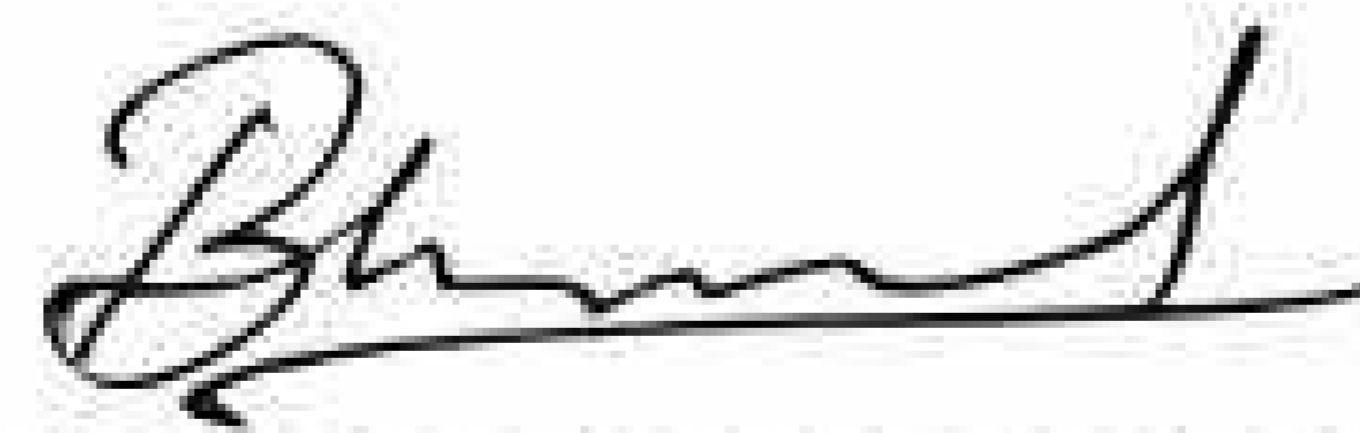
This is to certify that

**BAJJURI NAGARAJU Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

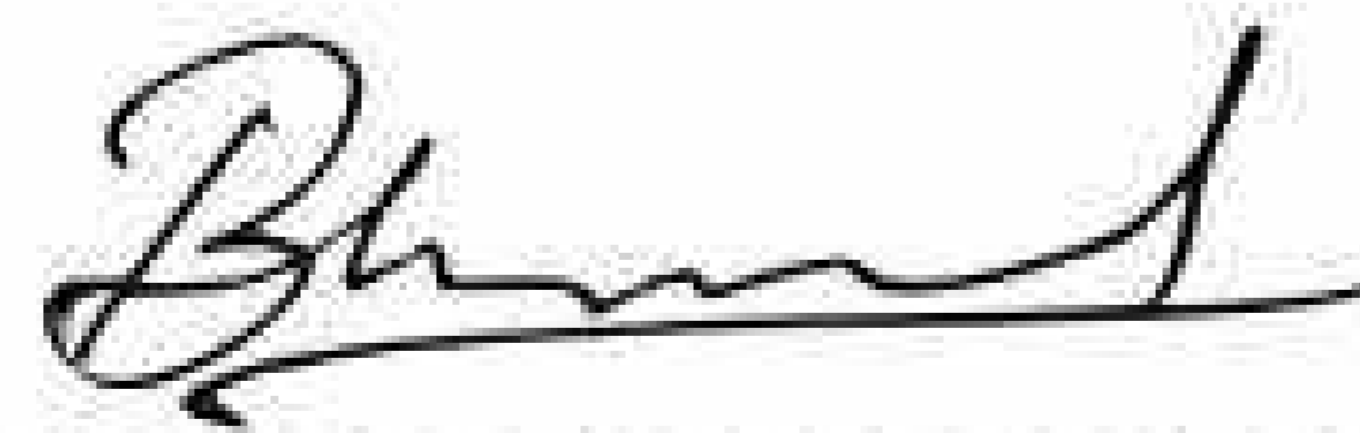
This is to certify that

**BAJJURI NAGARAJU Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

This is to certify that

**Nagesh Reddy Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

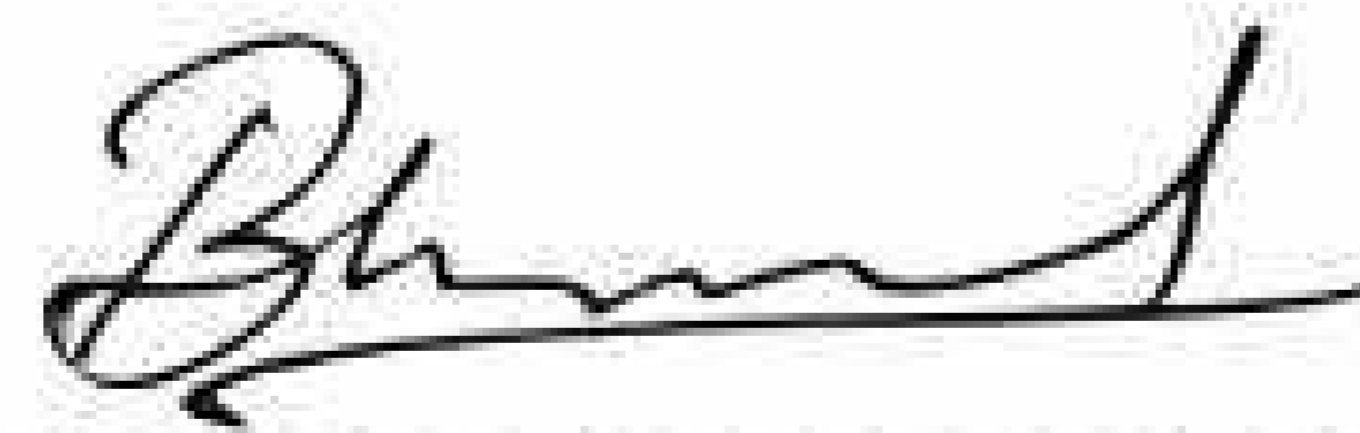
This is to certify that

**Nagesh Reddy Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

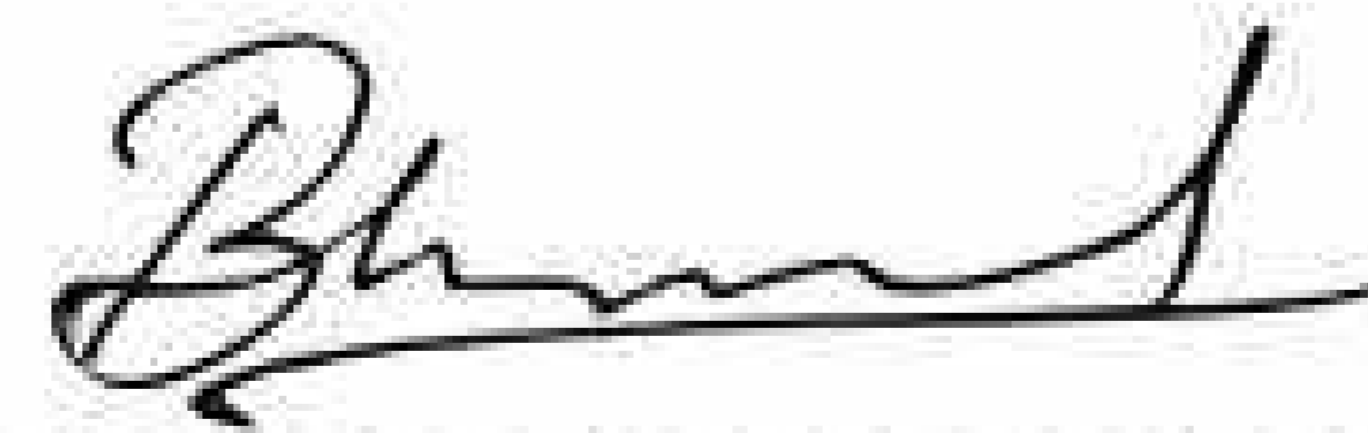
This is to certify that

**NIHAR TOKACHICHU**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

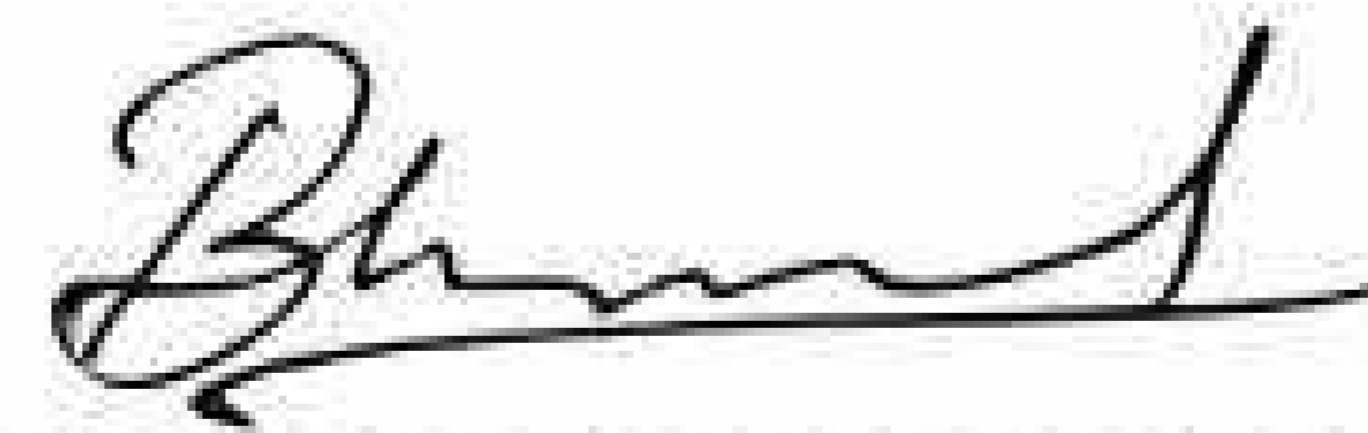
This is to certify that

**Nikhil Mudumba**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

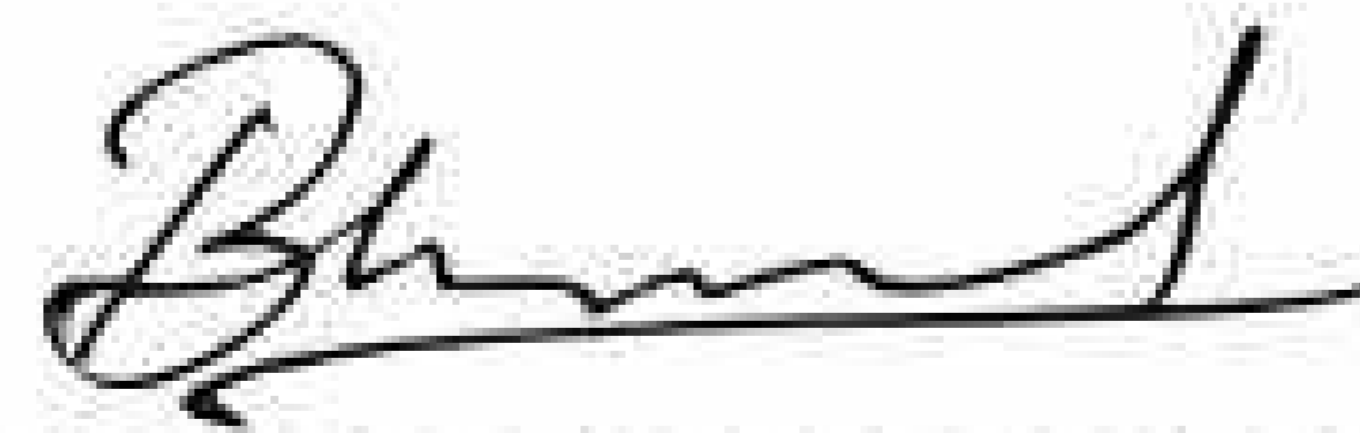
This is to certify that

**Syed Noor Mohammed**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



# Certificate of Internship

This is to certify that

**Prashanth Reddy Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.

**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



*Swecha*

## Certificate of Internship

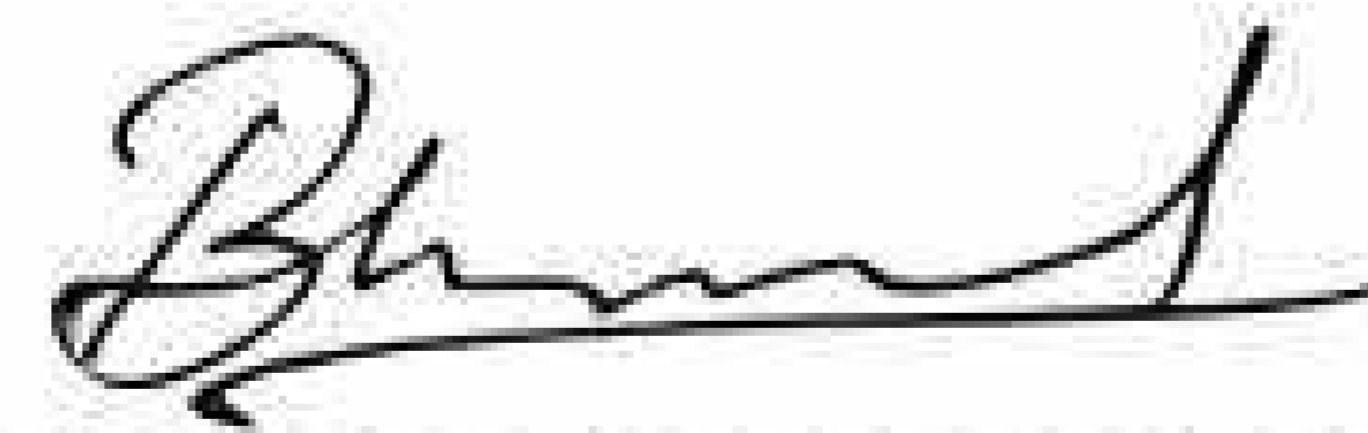
This is to certify that

**Ruthvik Athi**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

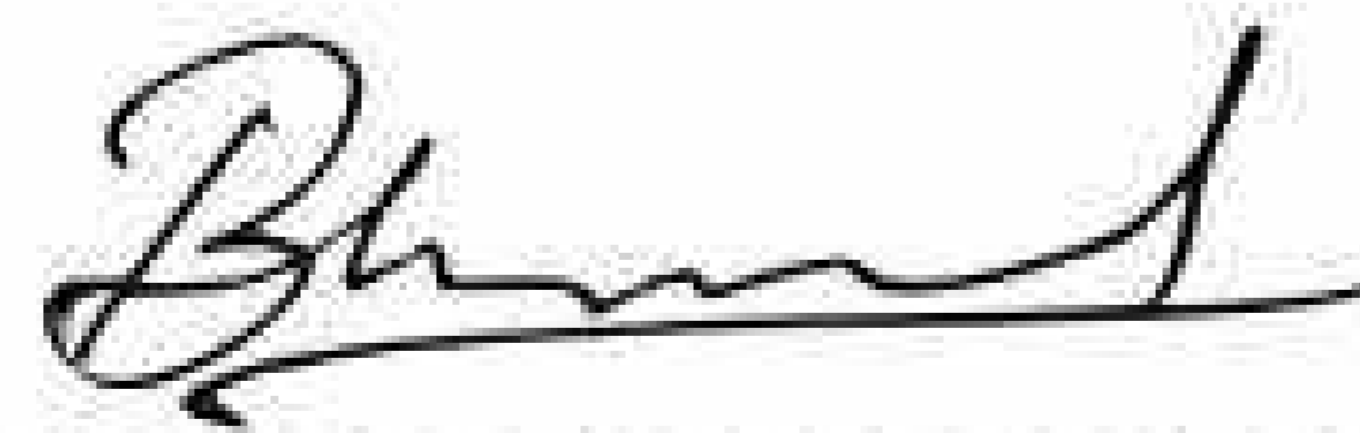
This is to certify that

**GUNTHA SAI AMITH**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

This is to certify that

**SAI NIKHIL SAMINENI**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

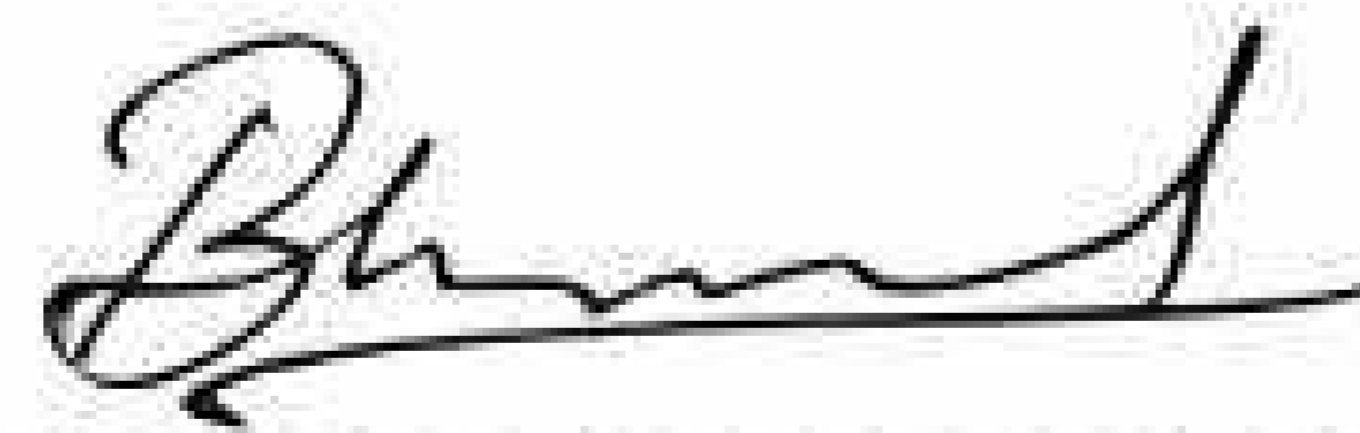
This is to certify that

**SAI VARSHITH SHIVARAMPALLY**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

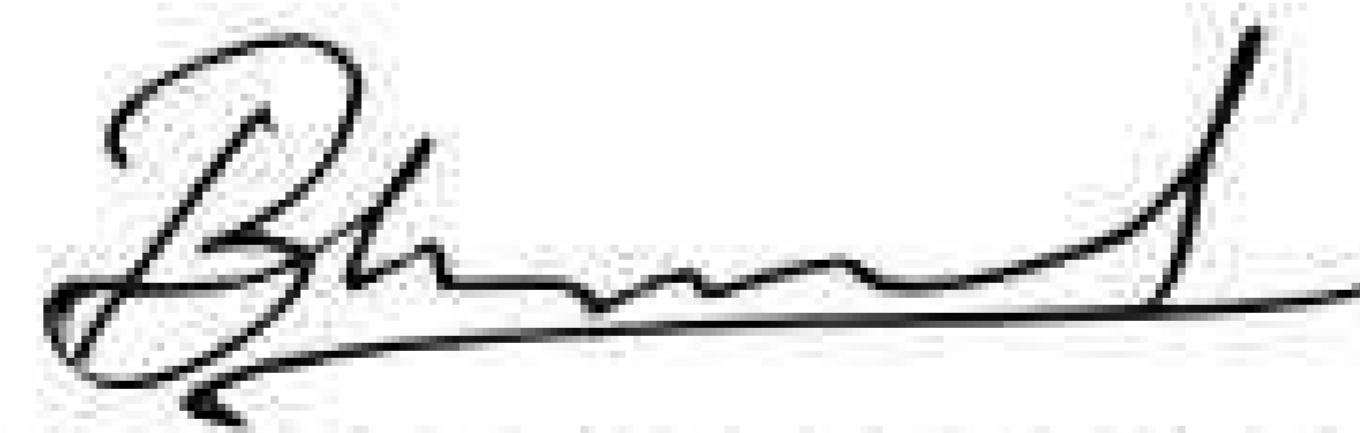
This is to certify that

**BACHU SAI VENKATA NITIN**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

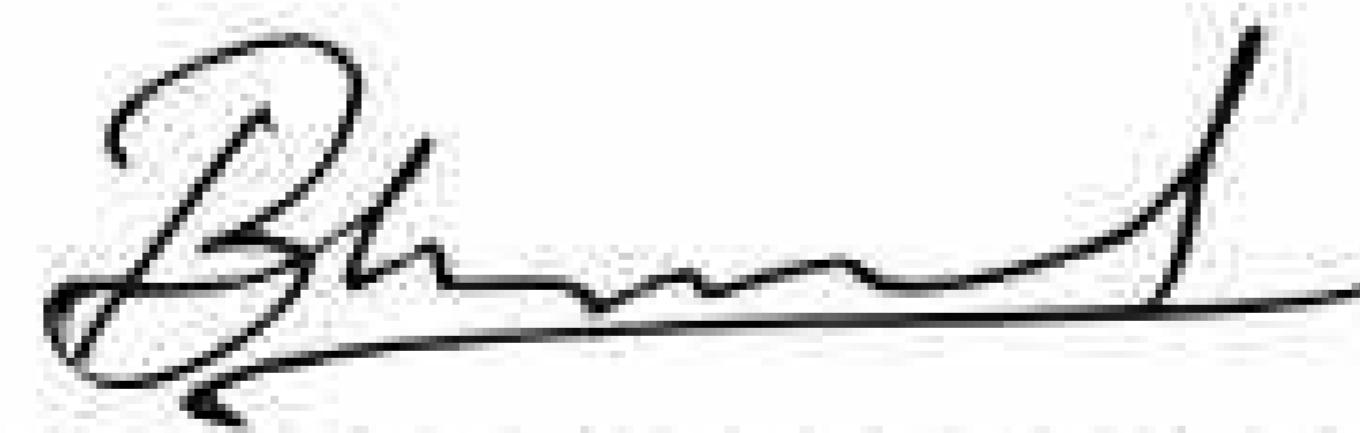
This is to certify that

**SAKETH BOTTE**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

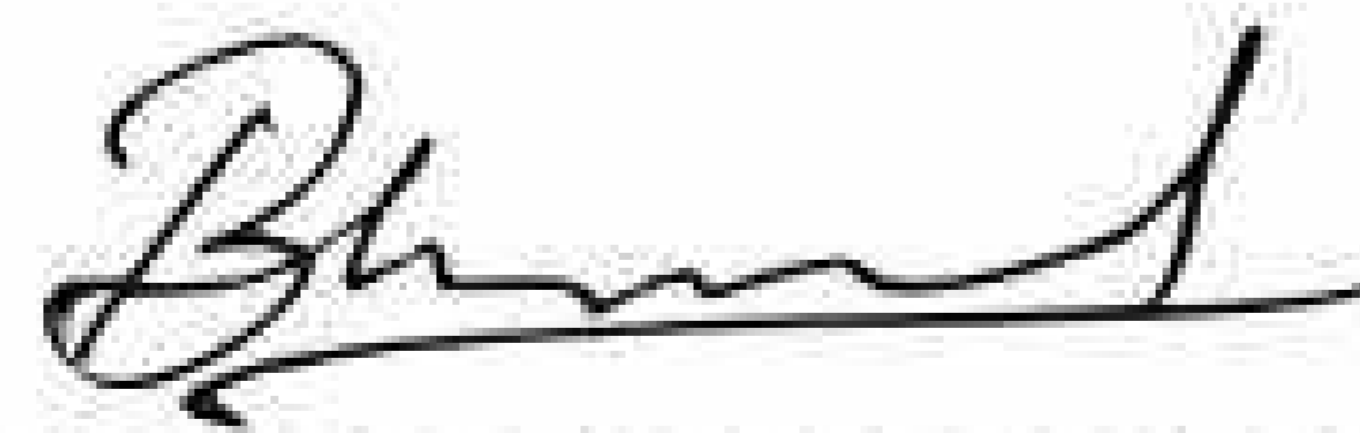
This is to certify that

**Sanketh Kumar Kistappagari**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

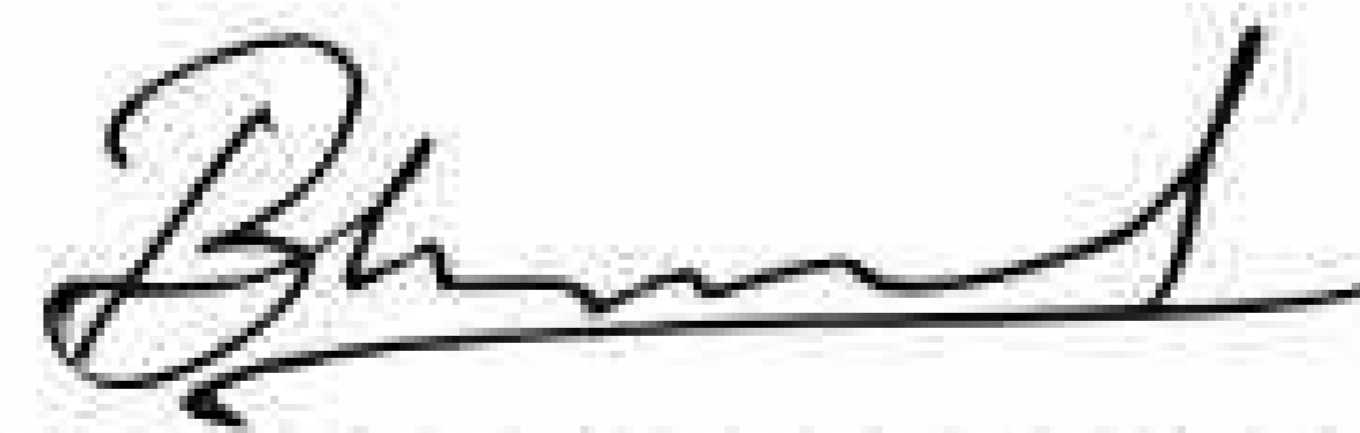
This is to certify that

**PEECHARA SHIVA KRISHNA**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13630750

To  
SHANIGARAM SHIVAGANESH  
H NO-1-8/W/A,SRINAGAR COLONY,CHERIAL  
H NO-1-35,MADDUR,PIN-506367  
SIDDIPET  
TELANGANA - 506223  
PH. NO :9502904745



Score	Type of Certificate
$\geq 90$	Elite+Gold
75-89	Elite+Silver
$\geq 60$	Elite
40-59	Successfully Completed
$< 40$	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**SHANIGARAM SHIVAGANESH**  
for successfully completing the course  
**Programming in Java**

with a consolidated score of **86** %

Online Assignments	24.6/25	Programming Exam	25/25	Proctored Exam	36/50
--------------------	---------	------------------	-------	----------------	-------

Total number of candidates certified in this course: 2632

  
Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

  
Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No:NPTEL21CS56S13630750

To validate and check scores: <https://nptel.ac.in/noc/>



## Certificate of Internship

This is to certify that

**Srijay Simha Reddy C**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.

**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

*Swecha*

## Certificate of Internship

This is to certify that

**GANDASIRI VIVEK Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

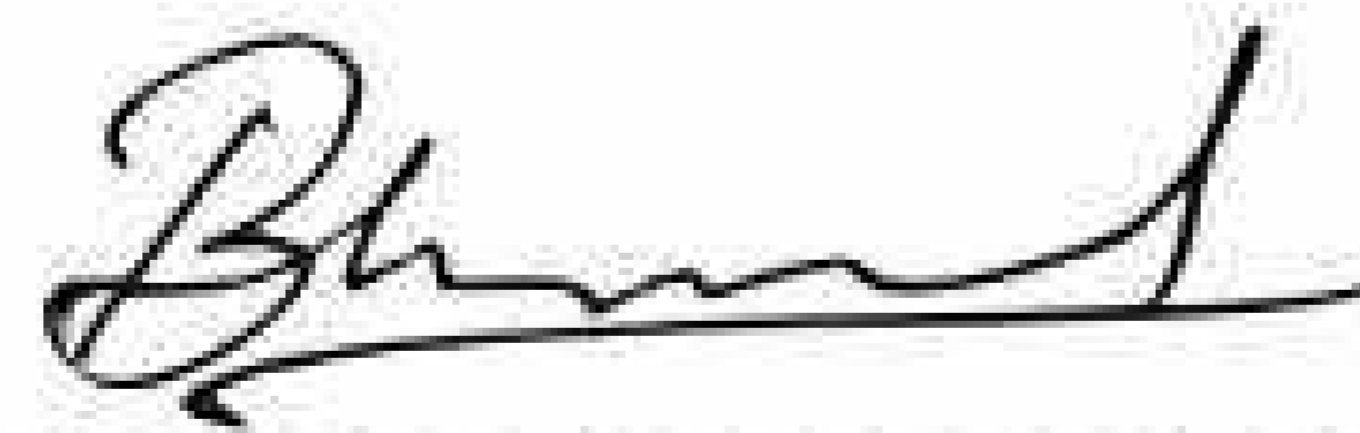
This is to certify that

**K YASHWANTH REDDY**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

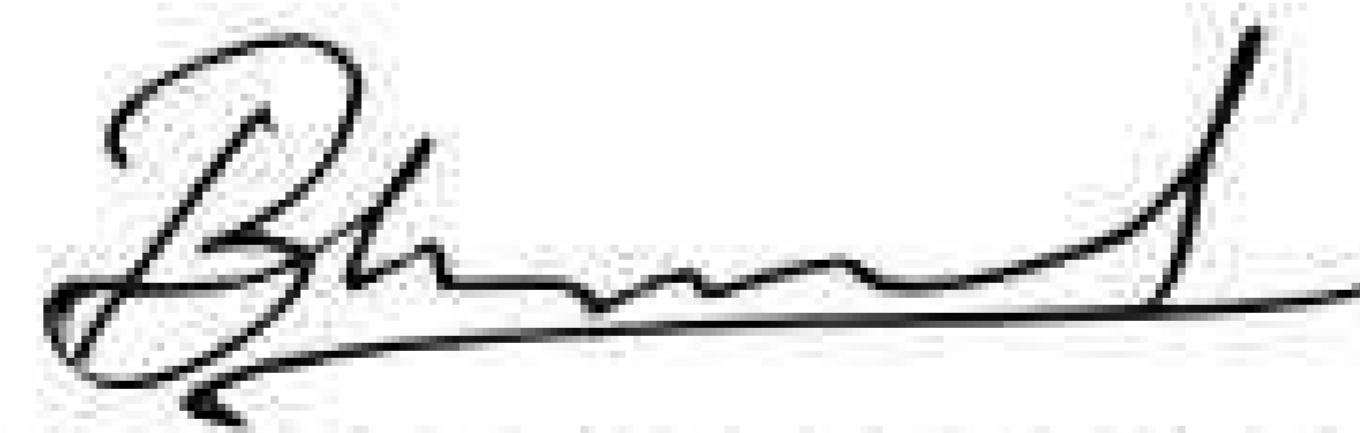
This is to certify that

**YESWANTH KONDABOLU**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

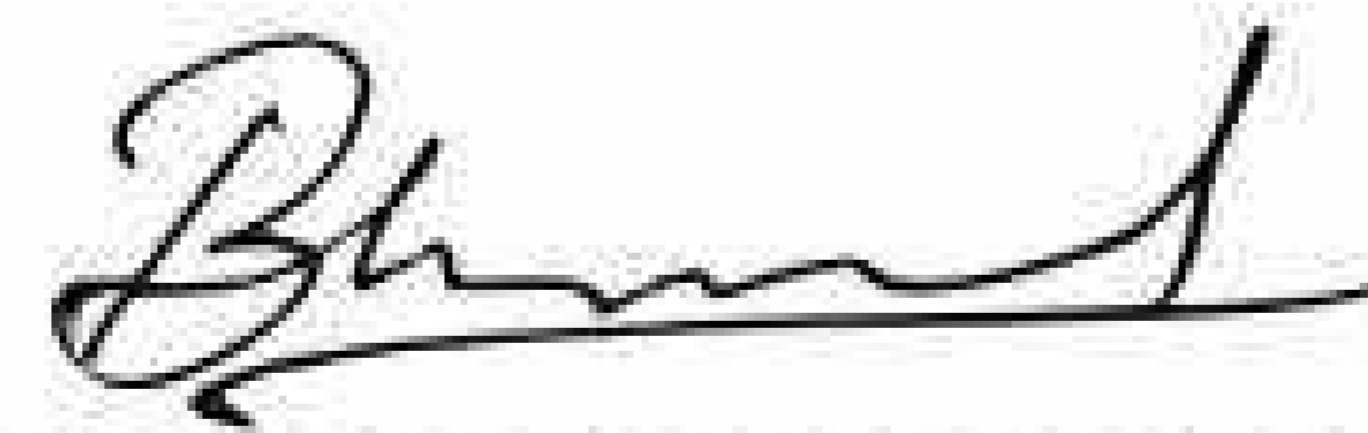
This is to certify that

**Manohar Udutha Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

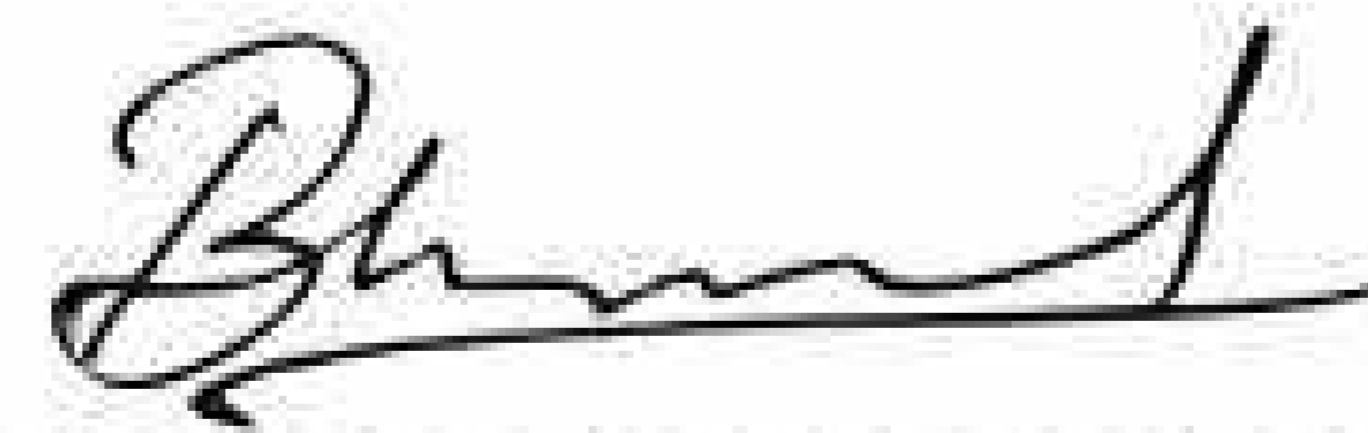
This is to certify that

**Gamasu Rangha Vardhan**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)**  
Kokapet (Village), Gandipet, Hyderabad, Telangana-500075. www.cbti.ac.in

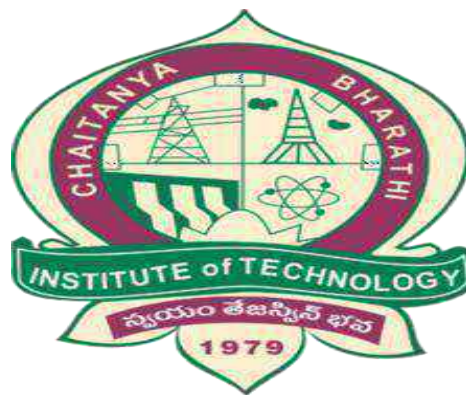


## SWECHA INTERNSHIP WEBDEVELOPEMENT PROJECT REPORT

### GROUP PROJECT

### MOVIE SEARCH PROJECT:**INFOLIX**

**Syed Noor Mohammed**  
**160120748044**



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)



## **TABLE OF CONTENTS:**

- ACKNOWLEDGEMENT.
- ABSTRACT
- INTRODUCTION.
- PROBLEM STATEMENT
- RESPONSIBILITIES OF WORK
- DESCRIPTION
- OUTPUT SCREENSHOTS
- SKILLS LEARNED & EXPERIENCE GAINED.
- CONCLUSION
- REFERENCES

## **ACKNOWLEDGEMENT:**

I would like to express my special thanks of gratitude to the SWECHA internship for their able guidance and support in completing project.

I would like to extend my gratitude to principal for providing me with all the facility that was required to do our project.

## **ABSTRACT:**

The goal of this project is to design a web development named INFOLIX, which shows the details of the particular searched movie. Customers can able to find the movies they want, check the IMDB rating and can analyze about different movies.

The curiosity of users towards the movies across the world wide leads to the Infolix web development. They can search for the movie to get the details of genre of the movie, IMDB rating, languages, date of release.

## **INTRODUCTION:**

Swecha is a non-profit organization formerly called as Free Software Foundation Andhra Pradesh (FSF-AP) later changed name to Swecha. It is a Telugu Operating System released in the year 2005, and is a part of Free Software Movement of India (FSMI).The organization is a social movement working towards educating the masses with the essence of Free Software and to provide knowledge to the commoners.

Swecha aims at providing global software solutions to the local people with the Free Software development model by working together with the community of developers and users all over. The prime objective of Swecha OS is to provide a complete computing solution to a population that speaks and understands only Telugu.

## **PROBLEM STATEMENT:**

- To create a responsive website which responds to a users search query and displays accurate results, by fetching the data through various data-bases.
- We are supposed to provide the most necessary and relevant information, which should be gathered from a verified data-base.
- After completion the Website INFOLIX provides all the relevant details for a particular movie on a single page

## **RESPONSIBILITIES OF WORK:**

The responsibilities of a project manager include:

1. Planning the project
2. Creating a schedule and timeline
3. Executing each phase
4. Managing the budget

## **DESCRIPTION:**

We have done project on INFOLIX which is just like a website which shows a few essential details of a particular searched movie, some of the details include the IMDb rating, date of release. Genre of the movie etc.

## **CODE:**

### **HTML:**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="style.css">
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <link
href="https://fonts.googleapis.com/css2?family=Open+Sans:wght@300&display=swap"
rel="stylesheet">
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <link href="https://fonts.googleapis.com/css2?family=Heebo&display=swap"
rel="stylesheet">
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <link
href="https://fonts.googleapis.com/css2?family=Quicksand:wght@395&display=swap"
rel="stylesheet">
```

```
<link rel="icon"
href="https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.dreamstime.com%2Fabstract-explosion-red-dust-black-background-powder-splatter-dark-freeze-motion-splash-image112758329&psig=AOvVaw20iV8Gn4KAA31fpFTzk-ge&ust=1636383820252000&source=images&cd=vfe&ved=0CAsQjRxqFwoTCMiCpvfChvQCFQAAAAAdAAAAABAQ" type = "image/x-icon">
```

```
<title>INFOLIX</title>
```

```
</head>
```

```
<body>
```

```
<h1 style="color: #e50914;size: 7em;font-family:'Heebo', sans-serif;"
class="WebTitle">INFOLIX</h1>
```

```
<div class="outerbox">
```

```
<h1 style="color:white;font-size: 3.125rem;">Unlimited movies,Tv shows search
fordetails.</h1>
```

```
</div>
```

```
<div class="nextbox">
```

```
<input type="text" class = "searchbox" style="color:black ;" placeholder="Enter Title..">
```

```
<button style="color:white; font-size: large;" class="response">Search</button>
```

```
</div>
```

```
<div class="card">
```

```
<div class="details">
```

```
<div class="poster">
```

```
<img src="" class ='fin_image'alt="">
```

```
</div>
```

```
<div class="innerdetails">
```

```
<div class="moviename">
```

```
<h4 class ="mov_name" style="color:rgb(212, 51, 51); font-size: xx-large;font-
weight: 600;" >Movie name</h4>
```

```
</div>
```

```
<div class="otherdetails">
```

```
<h4 class="Genre" style="color:white;">Genre</h4>
```

```
<h4 class="Date"style="color:white;">Relase Date</h4>
```

```
<h4 class="language"style="color:white;">Languages</h4>
```

```
<h4 class="runtime"style="color:white;">Duration</h4>
```

```
</div>
```

```
<div class="rating">
```

```
<h4 class ="imdb"style="color:rgb(212, 51, 51);">Imdb</h4>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<script>
```

```
let movie={
```

```
  apikey:'k_ibinuz1a',
```

```
  fetchdata_2: function(movie_name) {
```

```
    fetch(
```

```
      'https://imdb-api.com/en/API/SearchMovie/k_ibinuz1a/'+movie_name
```

```
    ).then((response) => response.json())
```

```
    .then((data) => this.getim_id(data));
```

```
  },
```

```
  getim_id: function(data){
```

```
    const {id} =
```

```
    data.results[0];
```

```
    this.fetchdata(id);
```

```
  },
```

```
  fetchdata: function(id){
```

```
    fetch(
```

```
      "https://imdb-api.com/en/API/Title/k_ibinuz1a/"+id
```

```
    ).then((response) => response.json())
```

```
    .then((data) => this.displaydata(data));
```

```
  },
```

```
  displaydata: function(data){
```

```
    const {fullTitle} = data;
```

```
    const {image} =data;
```

```
    const {releaseDate}=data;
```

```
    const
```

```
    {imDbRating}=data;const
```

```
    {genres}=data; const
```

```
    {runtimeStr}=data; const
```

```
    {languages}=data;
```

```
    document.querySelector('.fin_image').src=image;
```

```
    document.querySelector('.mov_name').innerHTML=fullTitle;
```

```
document.querySelector('.Genre').innerHTML="Genre: "+genres;
```

```

document.querySelector('.Date').innerHTML="Date of Release: "+releaseDate;
    document.querySelector('.language').innerHTML='Language: '+languages;
    document.querySelector('.runtime').innerHTML="Duration:"+runtimeStr;
    document.querySelector('.imdb').innerHTML=imDbRating;
    },
    search: function(){
        this.fetchdata_2(document.querySelector("input.searchbox").value);
    }
};
document.querySelector('button.response').addEventListener('click',function(){
    movie.search();
});
document.querySelector("input.searchbox").addEventListener('keyup',function(event){
    if(event.key=="Enter"){
        movie.search();
    }
});

</script>
</body>
</html>

```

## **JAVA SCRIPT:**

```

let movie={
    apikey:'k_ibinuz1a',
    fetchdata_2: function(movie_name) {
        fetch(
            'https://imdb-api.com/en/API/SearchMovie/k_ibinuz1a/'+movie_name
        ).then((response) => response.json())
        .then((data) => this.getim_id(data));
    },
    getim_id: function(data){
        const {id} =
            data.results[0];
        this.fetchdata(id);
    },
    fetchdata: function(id){

```



```

fetch(
  "https://imdb-api.com/en/API/Title/k_ibinuz1a/"+id
).then((response) => response.json())
.then((data) => this.displaydata(data));
},
displaydata: function(data){
  const {fullTitle} = data;
  const {image} =data;
  const {releaseDate}=data;
  const
  {imDbRating}=data;
  const {genres}=data;
  const {runtimeStr}=data;
  const {languages}=data;
  document.querySelector('.fin_image').src=image;
  document.querySelector('.mov_name').innerHTML=fullTitle;
  document.querySelector('.Genre').innerHTML="Genre: "+genres;
  document.querySelector('.Date').innerHTML="Date of Relase: "+releaseDate;
  document.querySelector('.language').innerHTML='Language: '+languages;
  document.querySelector('.runtime').innerHTML="Duration:"+runtimeStr;
  document.querySelector('.imdb').innerHTML=imDbRating;
},
search: function(){ this.fetchdata_2(document.querySelector("input.searchbox").value);
}
};
document.querySelector('button.response').addEventListener('click',function(){
  movie.search();
});

```

## CSS:

```

body{
  background-
  image:url(https://miro.medium.com/max/1400/1*51yavS59mazOFnb55Z6znQ.png);
}
.outerbox{
  margin: 0;
  max-width: 100vw;
  display: flex;
  justify-content: center;
  align-items:center;
  margin-top: 4em;

```

```
    font-family: 'Heebo', sans-serif;
}
input.searchbox {
    border-radius: 0px;
    padding: 3px
    135px;font-weight:
    270;
    font-size: 120%;
    justify-content: center;
    text-align: center;
    background-color:whitesmoke;
    text-shadow: black;
    font-weight: normal;
    border-color: #e50914;
    border-width: 3px;
    font-family:'Quicksand', sans-serif;
    transition: 0.35s ease-in-out;
}
.response {
    margin-left: 2px;
    height: 34.5px;
    width: 96px;
    border-radius: 0px;
    background-color: #e50914;
    border: none;
    text-align: center;
    font-size: larger;
    font-weight: 500;
    font-family: 'Quicksand', sans-serif;
    cursor: pointer;
    transition: 0.3s ease-in-out;
}
.nextbox{
    display: flex;
    justify-content: center;
    margin-top: 6em;
    font-family: 'Open Sans', sans-serif;
}
.avatar{
    margin-top :3em;
}
```

```
.card {
  margin-top: 9em;
  display: flex;
  justify-content: center;
  align-items: center;
  font-family: 'Open Sans', sans-serif;
}
.moviename {
  display: flex;
  justify-content: center;
  font-family: 'Open Sans', sans-serif;
}
.details {
  border-radius: 35px;
  background: #1a1a1ac0;
  padding: 3em;
  font-family: 'Open Sans', sans-serif;
  min-width: 325px;
  max-width: 325px;
  max-height: 695px;
}
.poster {
  display: flex;
  justify-content: center;
}
img {
  border-radius: 35px;
  max-width: 175px;
}
.rating {
  display: flex;
  justify-content: center;
  align-items: center;
  font-size: xxx-large;
  margin-bottom: 0em;
  font-weight: bold;
  margin-top: -1.3em;
}
h1.WebTitle {
  font-size:
  73px; display:
  flex;
  justify-content: center;
```

```
align-items: center;

margin-bottom: 0px;
margin-top: 52px;
}
button.response {
  cursor: pointer;
}
input.searchbox {
  cursor: pointer;
}
button.response:hover {
  background: black;
}
input.searchbox:hover {
  background: #cccccc;
}
```

## OUTPUT SCREENSHOTS





## Interstellar (2014)

Genre: Adventure, Drama, Sci-Fi

Date of Release: 2014-11-07

Language: English

Duration: 2h 49min

8.7

## **SKILLS LEARNED & EXPERIENCE GAINED:**

- From the four weeks of internship we have learnt HTML,JS and CSS.
- We also learned Basics of Python and Web Architecture.
- We learned how to divide and manage the work and learn from each other. Team management

## **CONCLUSION:**

We're excited to share with you the new web development for movie search which will be useful for every user.

We hope our project fulfils the main motto it actually wanted to achieve, which is to suggest to people to search movies. We have even beautifully filled our web page with those beautiful movies, people would always love to visit them. People who love to watch movies are always fond of websites like these which not only helps to select a perfect movie they would love to watch.

## **REFERENCES:**

- <https://www.imdb.com/>
- <https://www.wikipedia.com/>
-

*Swecha*

## Certificate of Internship

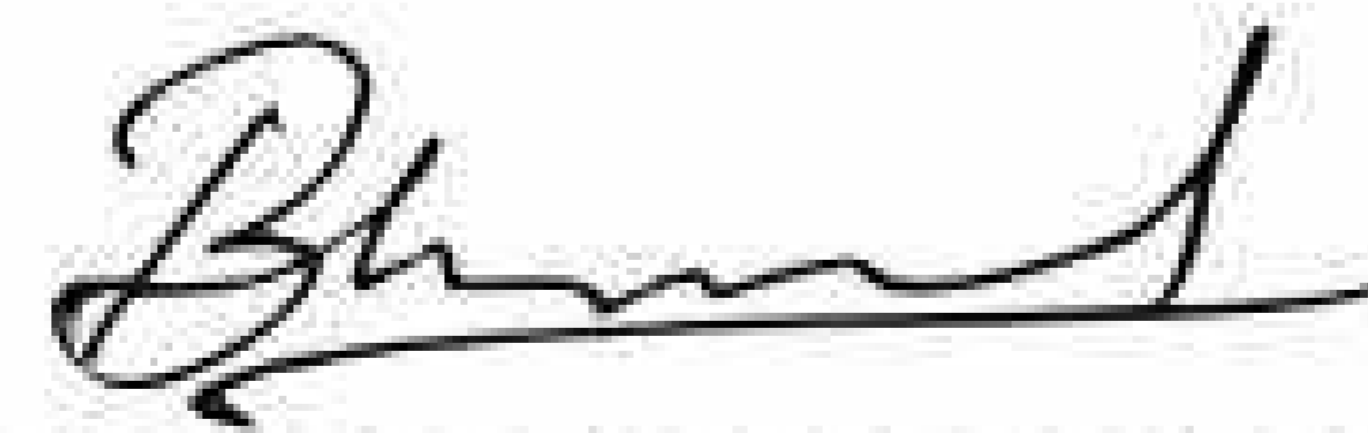
This is to certify that

**Mohammad Shireen**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



*Swecha*

## Certificate of Internship

This is to certify that

**Chira Sriya**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

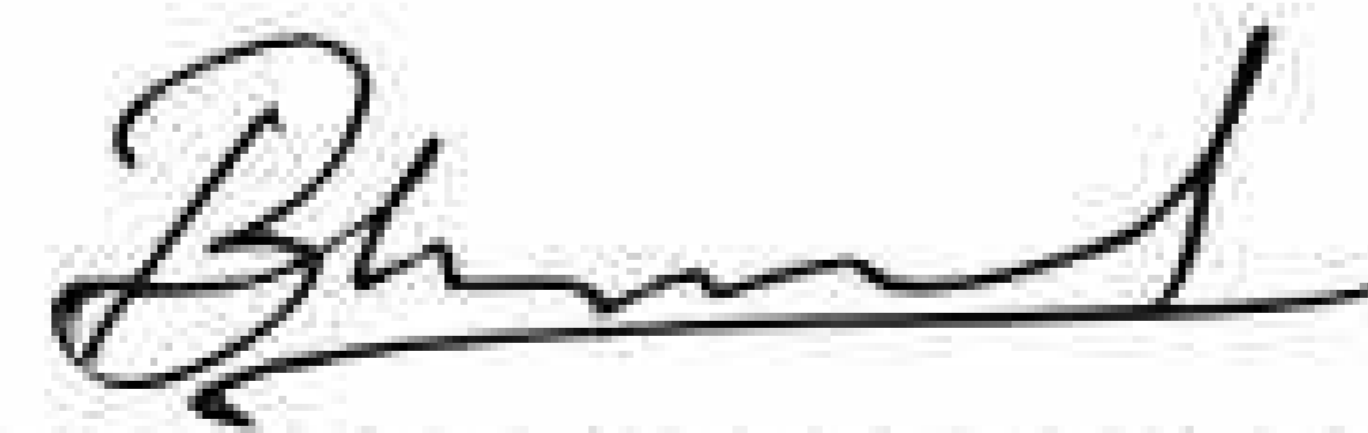
This is to certify that

**Chira Sriya**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

This is to certify that

**shashivardhan Bheem**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

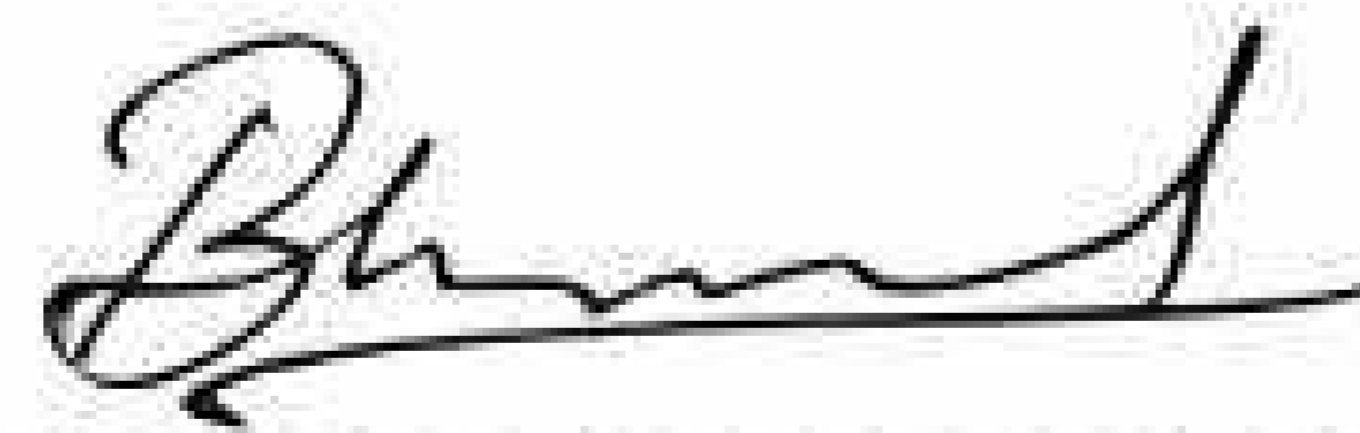
This is to certify that

**Mareddy shiva reddy Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)**

Kokapet(Village), Gandipet, Hyderabad, Telangana-500075. [www.cb.it.ac.in](http://www.cb.it.ac.in)



COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**41**  
years

# **DEPARTMENT OF MATHEMATICS**

## **B.E – I SEMESTER**

### **Linear Algebra & Calculus Lab Record**

**Course Code:20MTC02**

**Academic Year**

**2020-21**

**CHAITANYA BHARATHI INSTITUTE OF  
TECHNOLOGY**  
**Gandipet, Hyderabad-500075**



***Certificate***

*Certified that this is the bonafide record of the practical work done during the academic year  
2020-2021 by \_\_\_\_\_*

*Roll Number \_\_\_\_\_ Section \_\_\_\_\_*

*in the Laboratory of **Linear Algebra & Calculus** of the Department of Mathematics.*

*Internal examiner*

*External examiner*

*Head of the Department*

*Date : \_\_\_\_\_*

**Name of the student:**

**Roll No:**

**Course Name with code:** Linear Algebra & Calculus Lab  
**20MTC02**

**Semester:** I

**Internal Lab Exam:**

**External Lab Exam:**

**Department:** Mathematics

**Branch &Section:**

<b>S.No</b>	<b>Name of the Experiment</b>	<b>Page No.</b>	<b>Remarks</b>
1	BASIC COMMANDS		
2	ADDITION OF MATRICES		
3	MULTIPLICATION OF MATRICES		
4	DETERMINANT AND INVERSE OF MATRICES		
5	SOLUTION OF SYSTEM OF LINEAR EQUATIONS		
6	EIGEN VALUES AND EIGENVECTORS OF MATRICES		
7	NATURE OF THE QUADRATIC FORM		
8	DATA PLOTTING (2D)		
9	DATA PLOTTING (3D)		



## Certificate of Internship

This is to certify that

**Anam Fathima**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.

**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



*Swecha*

## Certificate of Internship

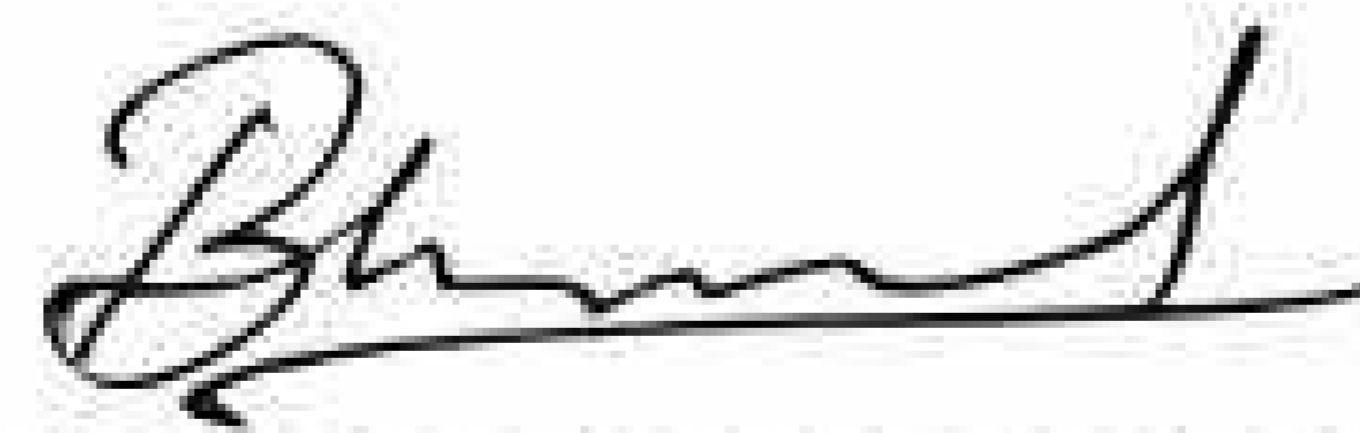
This is to certify that

**ANITA CHENNURU**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

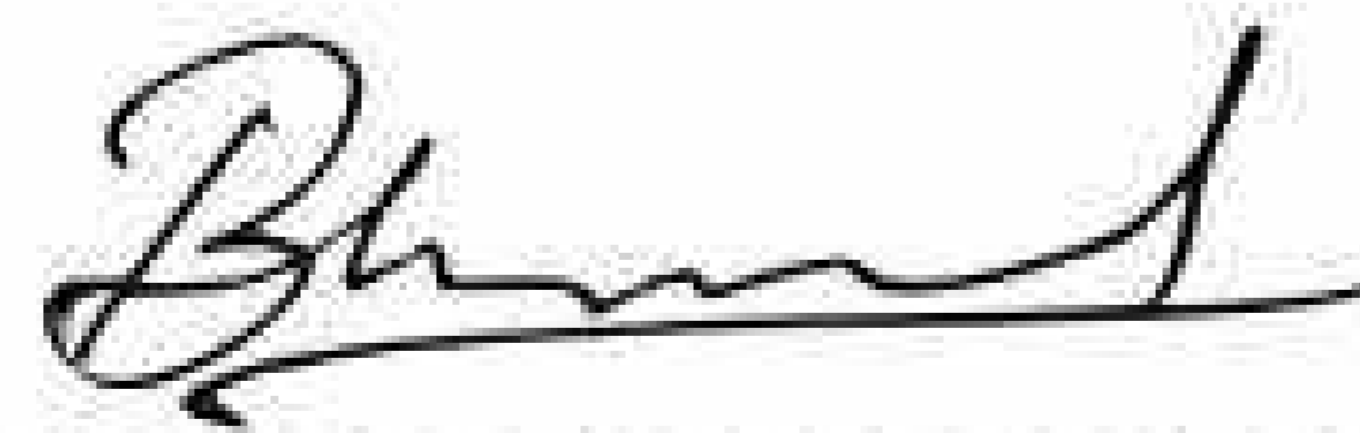
This is to certify that

**N Anjali**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

This is to certify that

**Mekala Chandrika Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

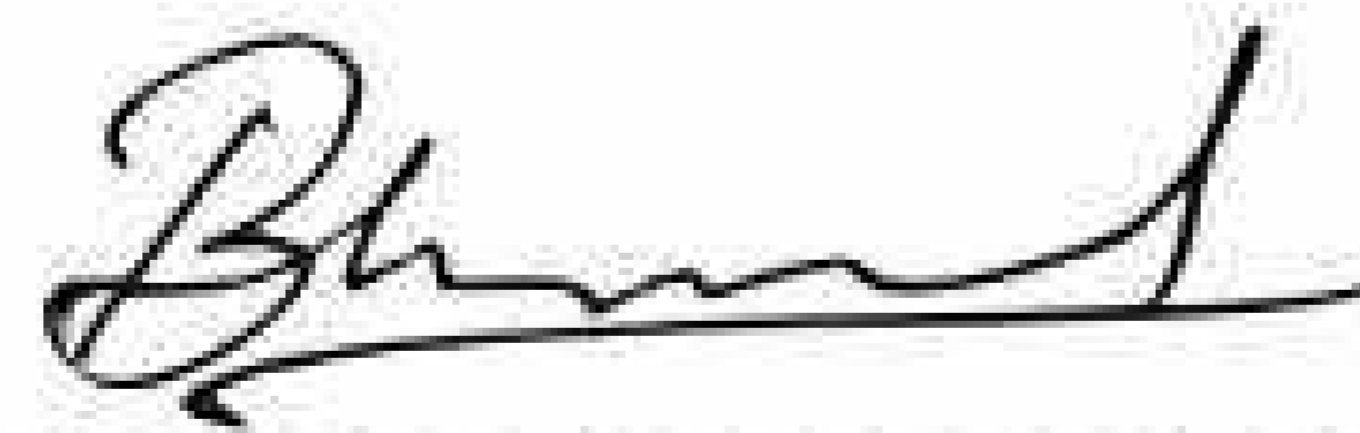
This is to certify that

**Hamsini Duttaluri Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

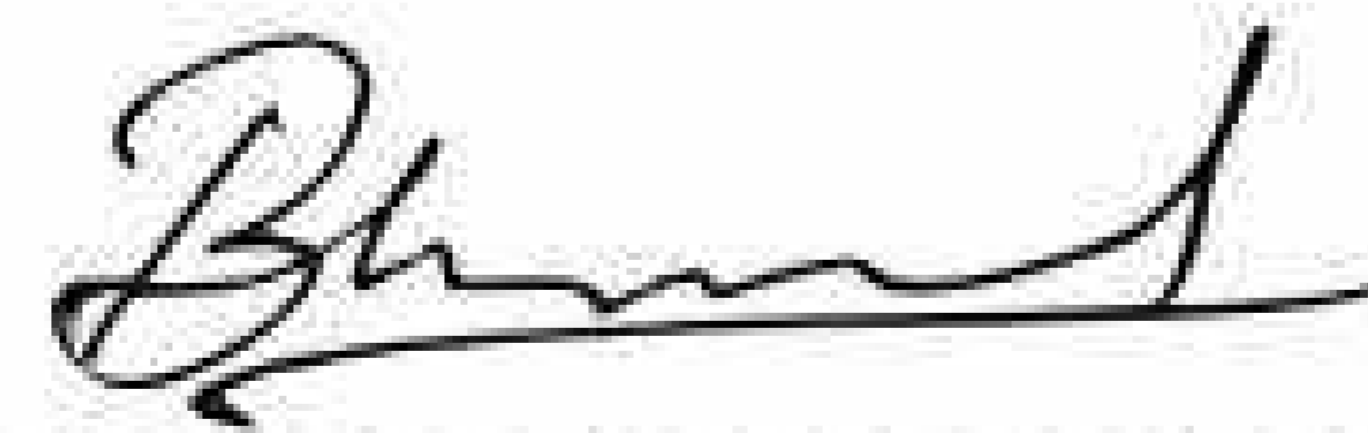
This is to certify that

**Laxmipriya Neela**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

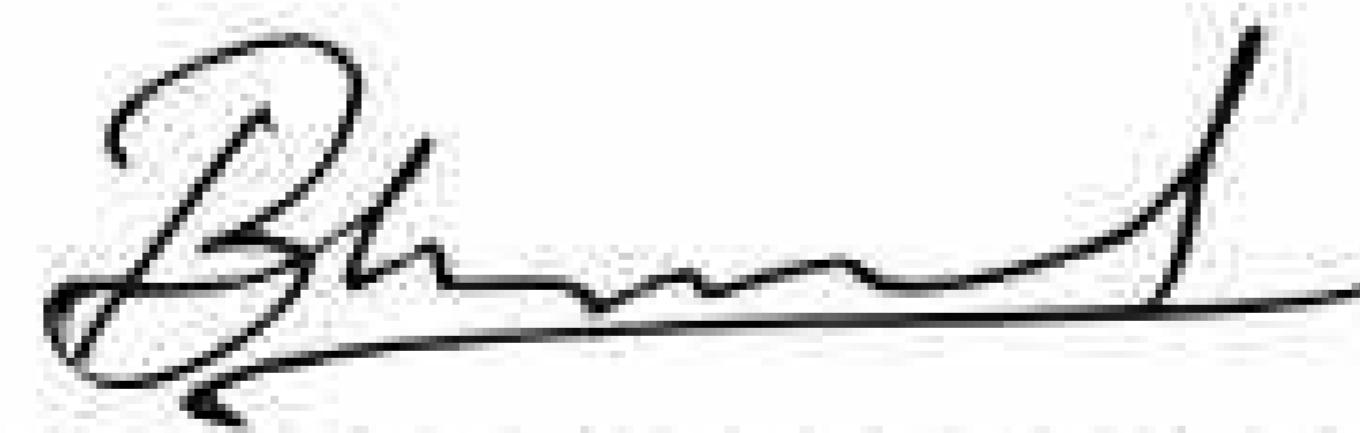
This is to certify that

manasvi kothlapuram Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



EXECUTIVE COMMITTEE MEMBER  
SWECHA

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

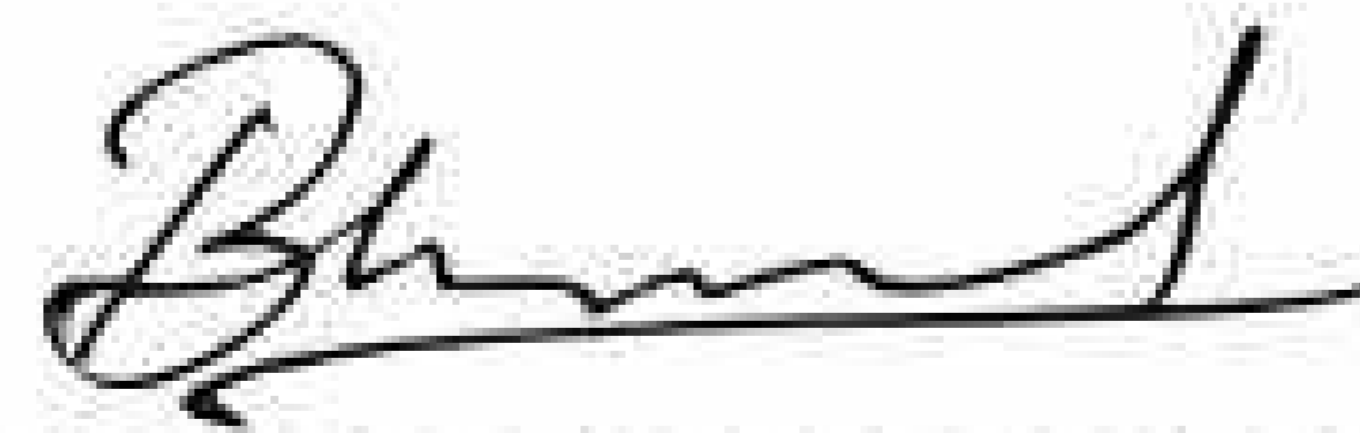
This is to certify that

**M Nithya Sai**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

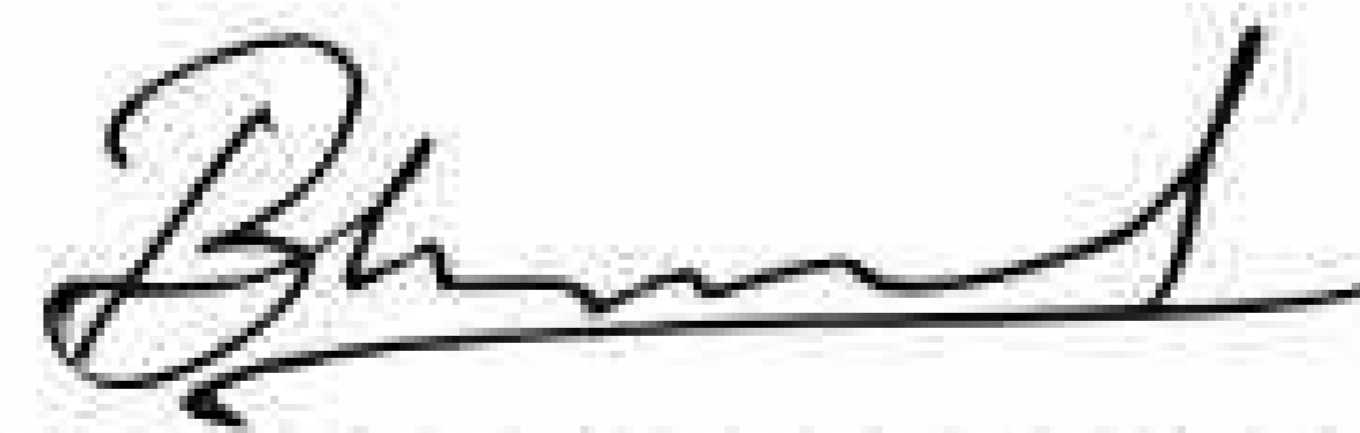
This is to certify that

**Kubagiri Pranathi Reddy Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



*Swecha*

## Certificate of Internship

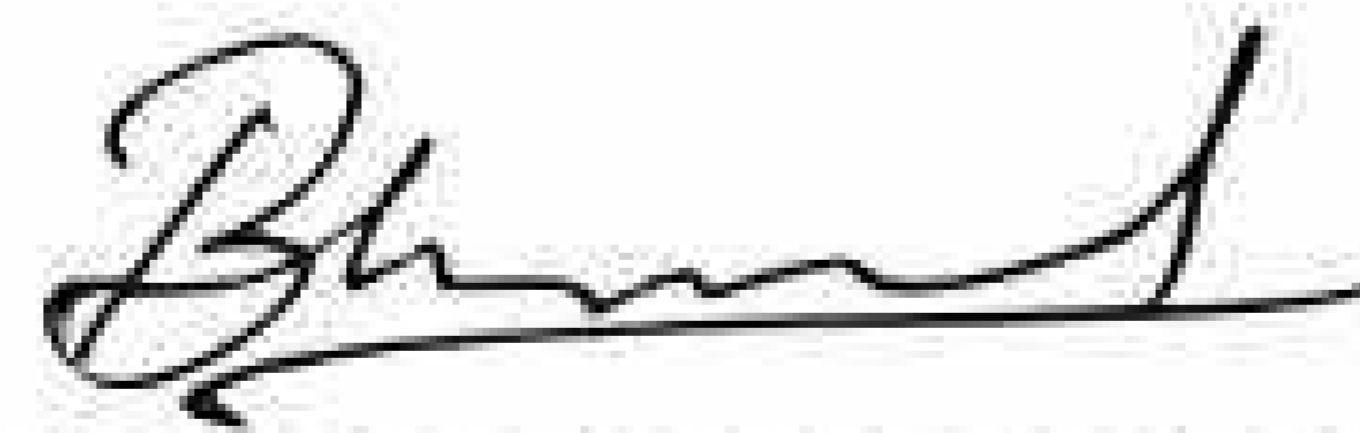
This is to certify that

**SAI LAKSHMI PRIYA KOTHACHERUVU**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

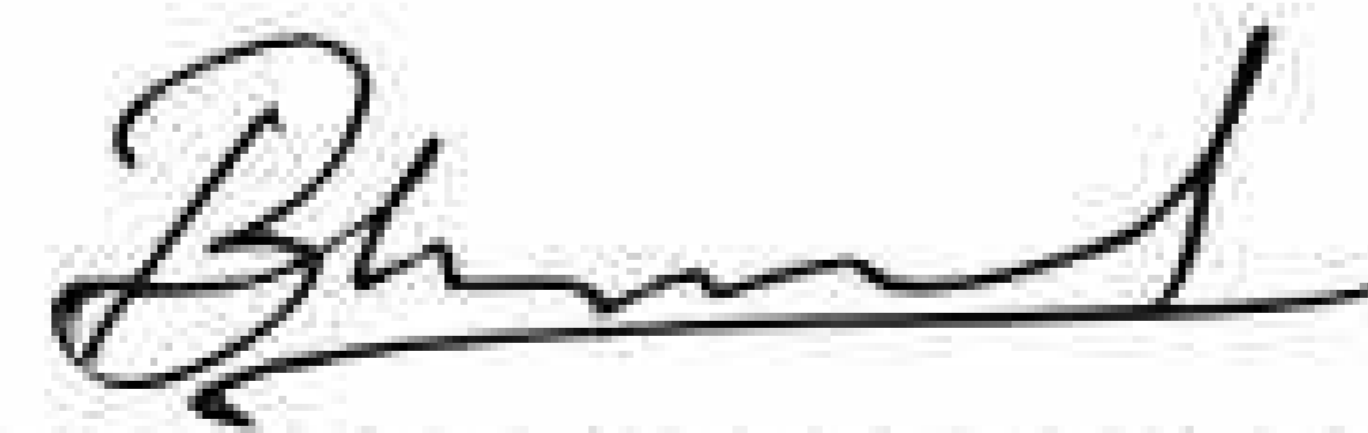
This is to certify that

**Sai pravallika Gumma Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

This is to certify that

**Shriya Bandi**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



## Certificate of Internship

This is to certify that

**Snigdha Talakoti Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.

EXECUTIVE COMMITTEE MEMBER  
SWECHA

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

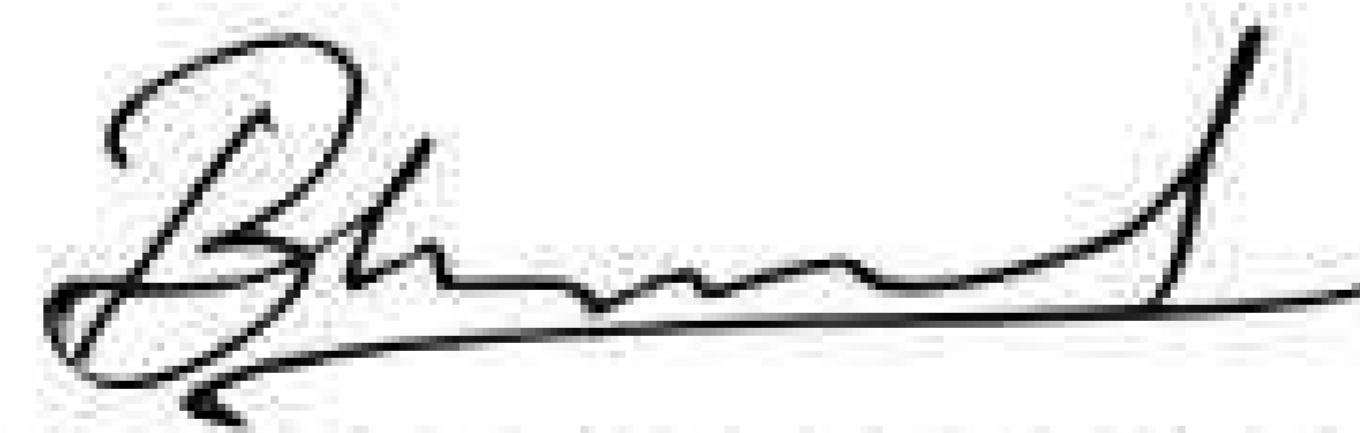
This is to certify that

**Basi Reddy Sreshta Reddy Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

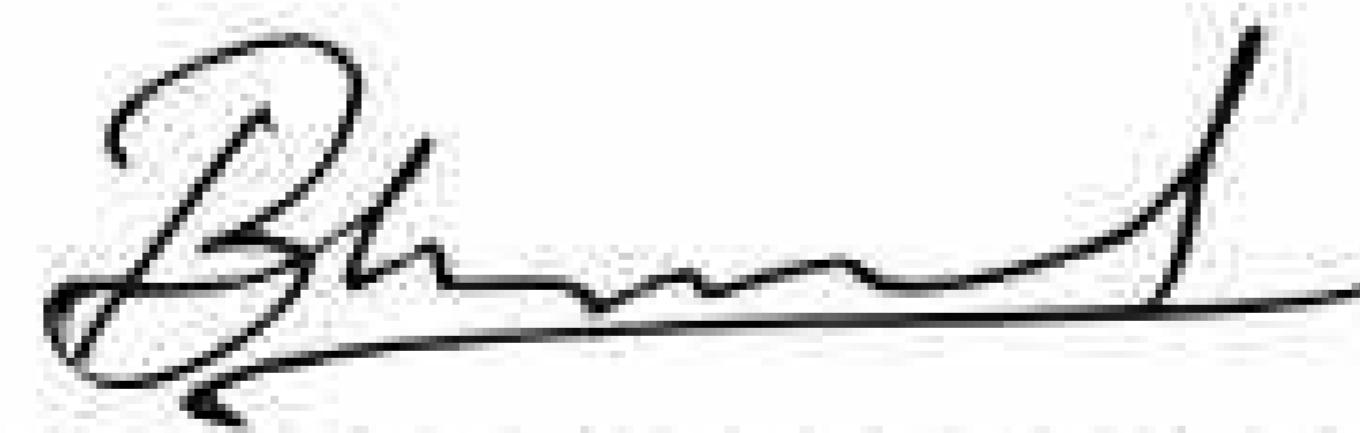
This is to certify that

**SRI MEGHANA KARRI**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

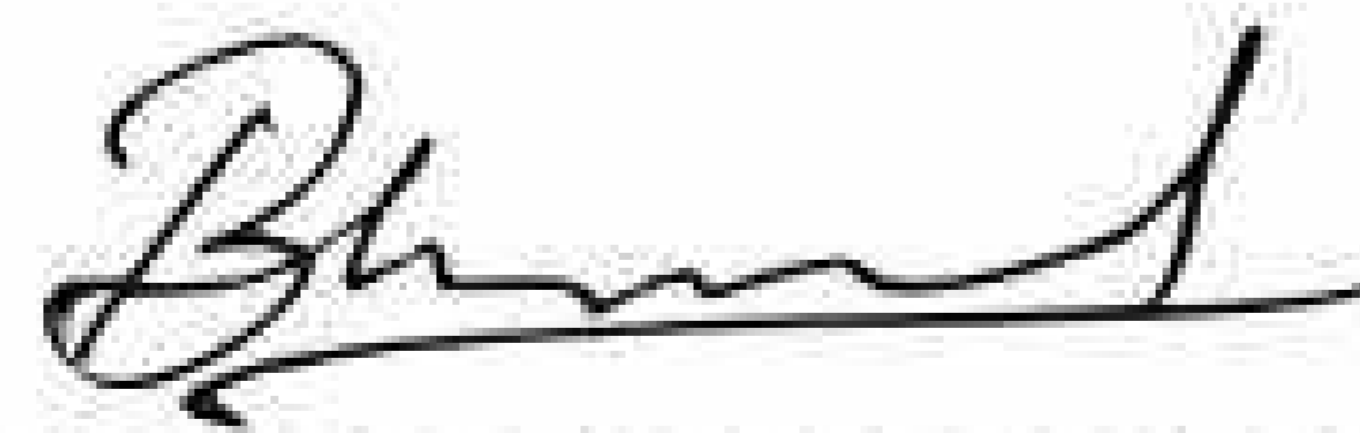
This is to certify that

**Boppana SriKhyati**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

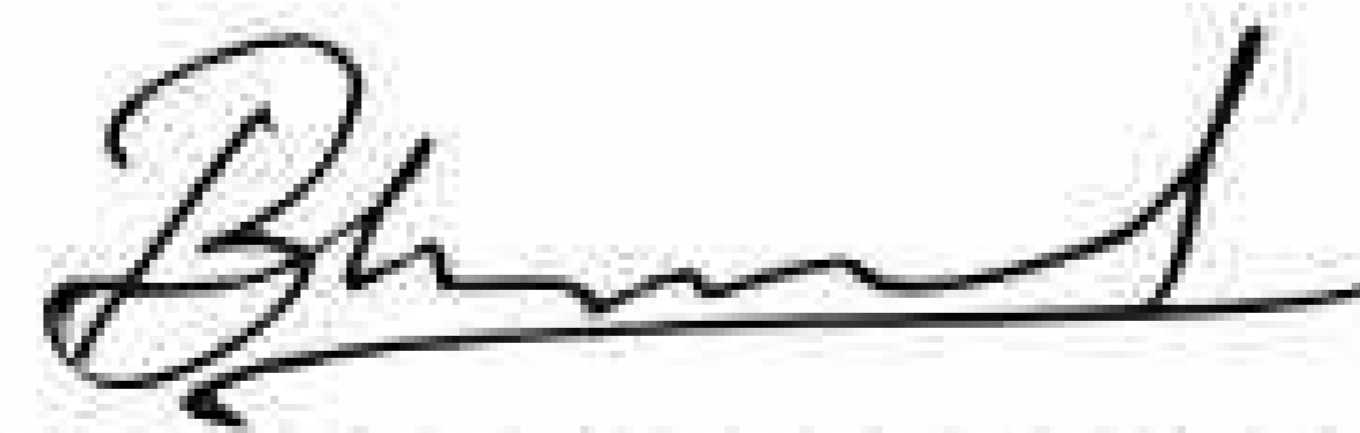
This is to certify that

**Tanya Kolanupaka Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032





## Certificate of Internship

This is to certify that

**Thrisha Kakarla**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.

**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

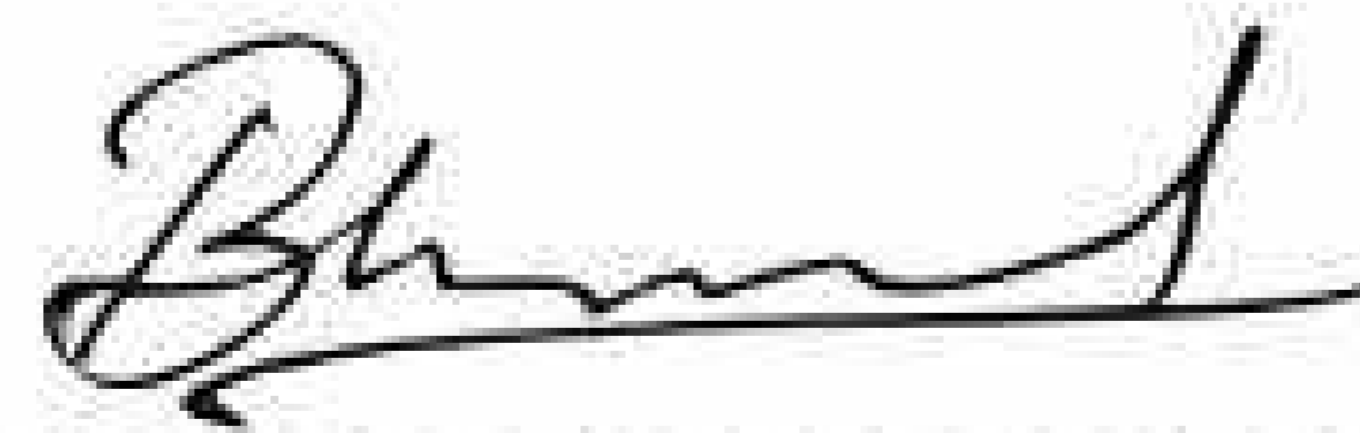
This is to certify that

**Vybhavi Bukka**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

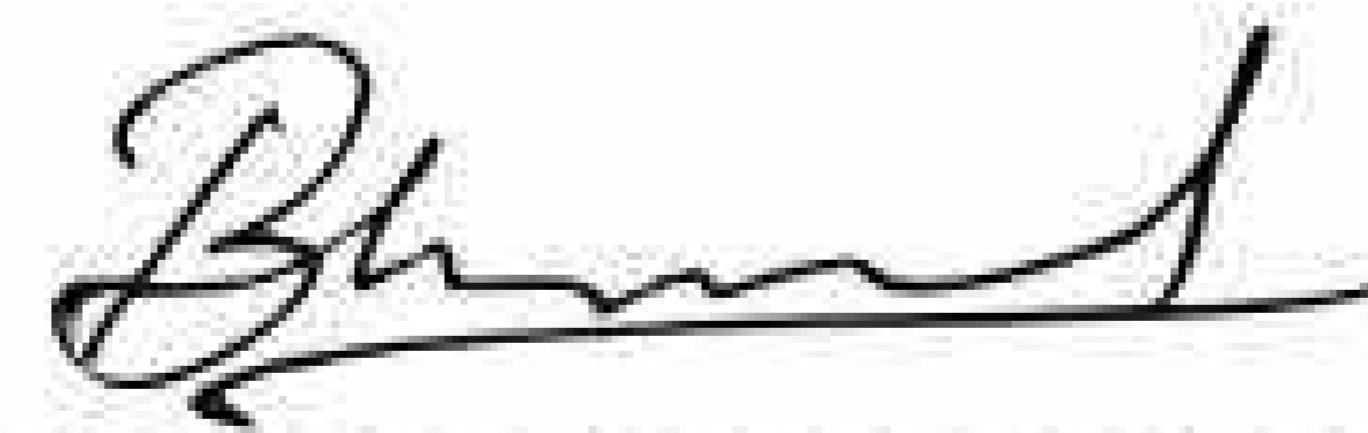
This is to certify that

**Abhinav Sai Danuguri**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

# CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

## Adithya Gururaj

participated in "Artificial Intelligence - Languify"  
from 11th Nov, 2021 to 11th Jan, 2022  
and successfully completed the program.

16-Jan-2022

DATE



PAUL MATHEW. I  
OVERALL COORDINATOR

*Swecha*

## Certificate of Internship

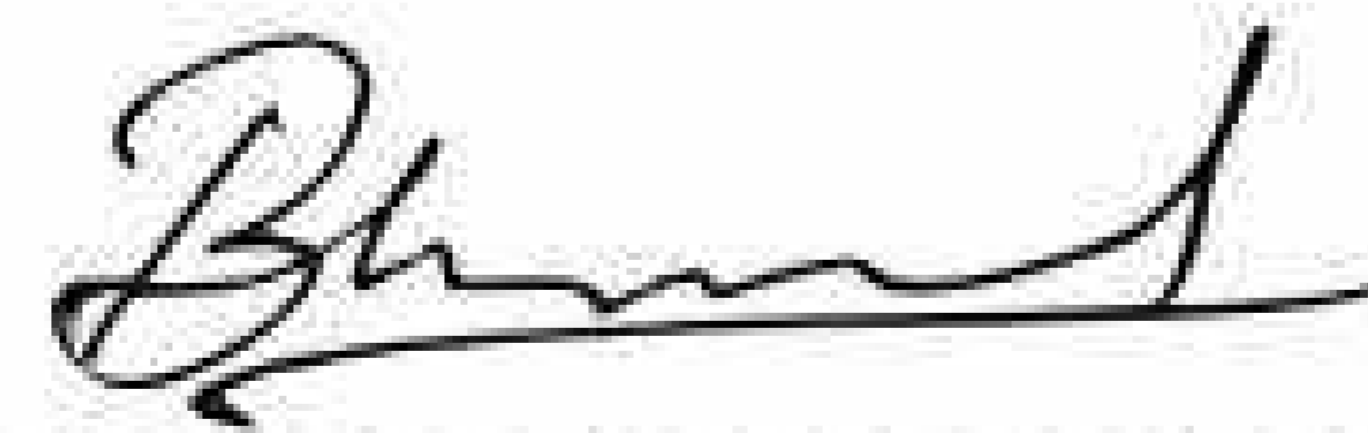
This is to certify that

**Ashish Chandra**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

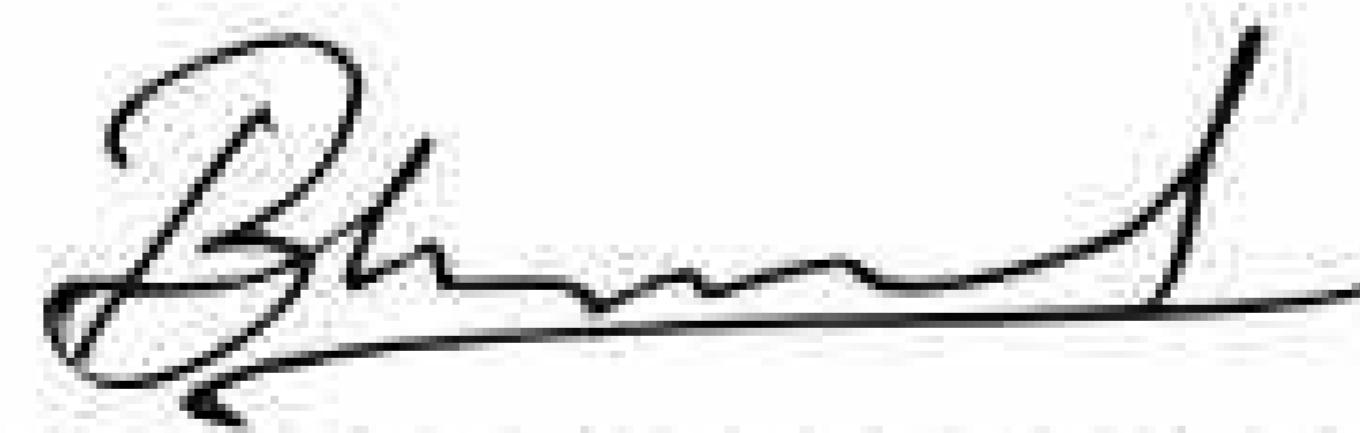
This is to certify that

**Bhanu Prasad Paitar Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13630871

To  
METTUPALLE CHINNAIAHGARI VENKATA VISWASREDDY  
GANDIPET  
KOKAPET  
HYDERABAD  
TELANGANA - 500075  
PH. NO :6301071571



Score	Type of Certificate
$\geq 90$	Elite+Gold
75-89	Elite+Silver
$\geq 60$	Elite
40-59	Successfully Completed
$< 40$	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**METTUPALLE CHINNAIAHGARI VENKATA VISWASREDDY**

for successfully completing the course

**Programming in Java**

with a consolidated score of **76** %



Online Assignments	24.47/25	Programming Exam	25/25	Proctored Exam	27/50
--------------------	----------	------------------	-------	----------------	-------

Total number of candidates certified in this course: **2632**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



*Swecha*

## Certificate of Internship

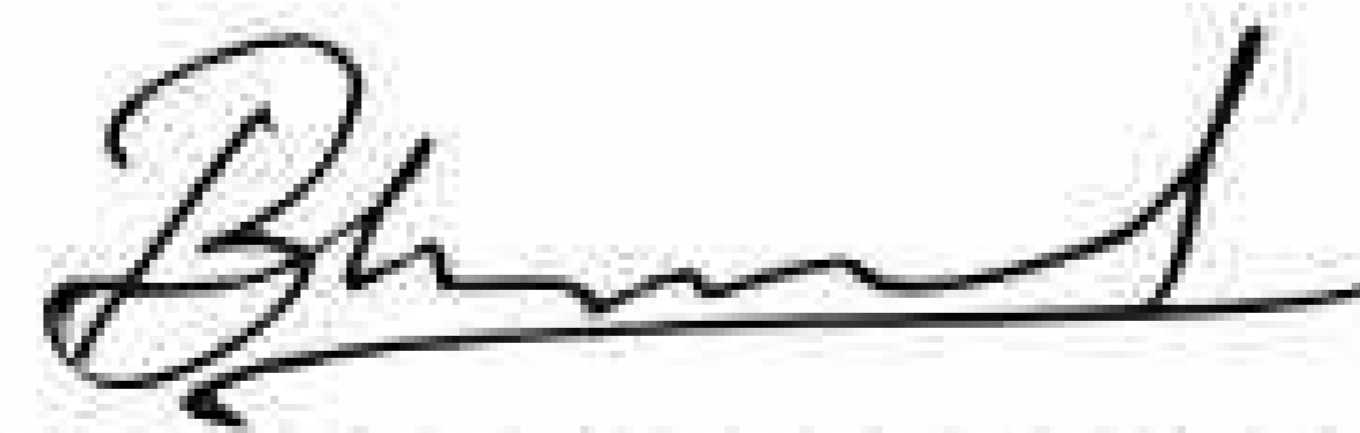
This is to certify that

**Chinni krishna**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



*Swecha*

## Certificate of Internship

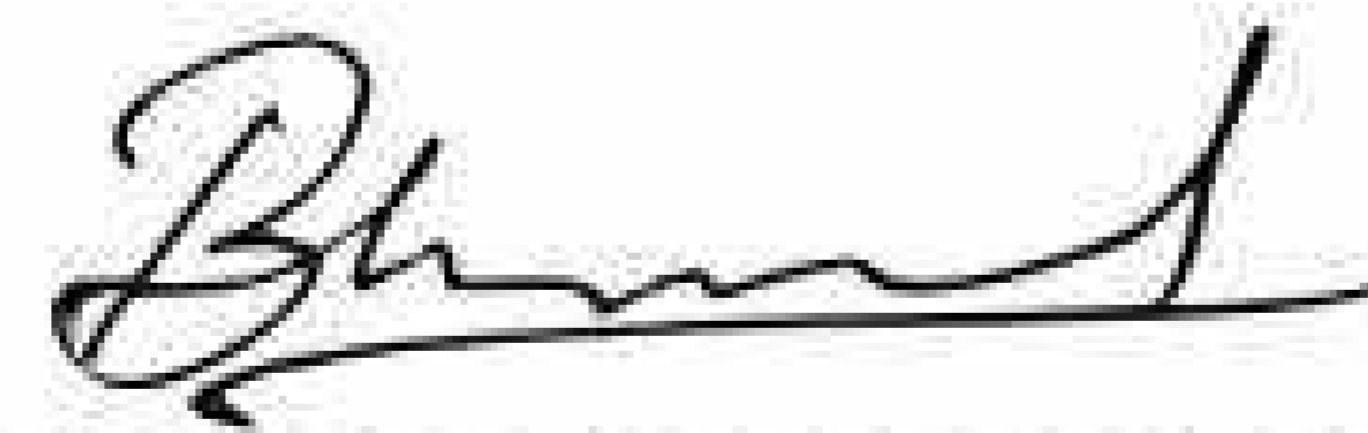
This is to certify that

**DHEERAJ VENU KASANI**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

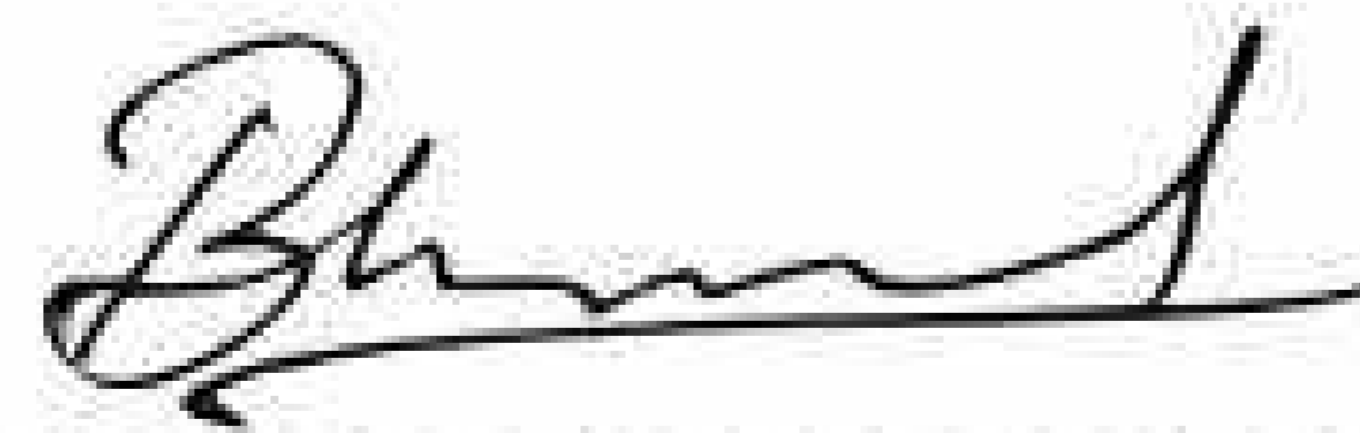
This is to certify that

**HIMA CHARAN GANGULA Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

This is to certify that

**Mohammed Irshad Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

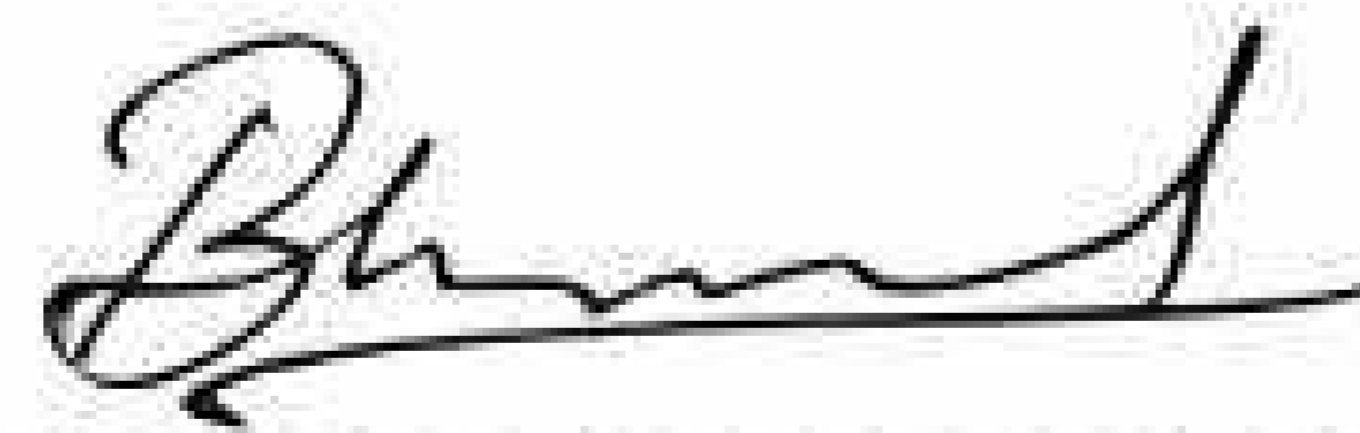
This is to certify that

**Khaja Osman Fareed Shiraazi Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

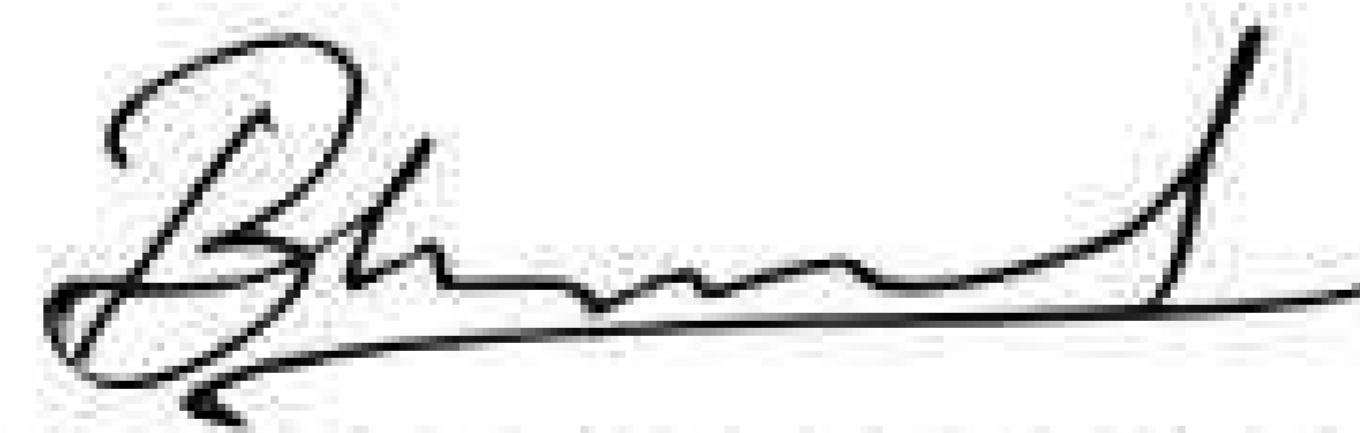
This is to certify that

**Khaja Osman Fareed Shiraazi Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



Indian Institute of Technology Madras  
Centre for Continuing Education

This is to certify that

**KOLLI KRISHNA RISHI**

has successfully completed the Foundational Level in  
Programming and Data Science  
**August 2021**



21F1001957

Programme Coordinator

Director

Chairman, Centre for Continuing Education

902781255047588665661753A00866192217466c714

*Swecha*

## Certificate of Internship

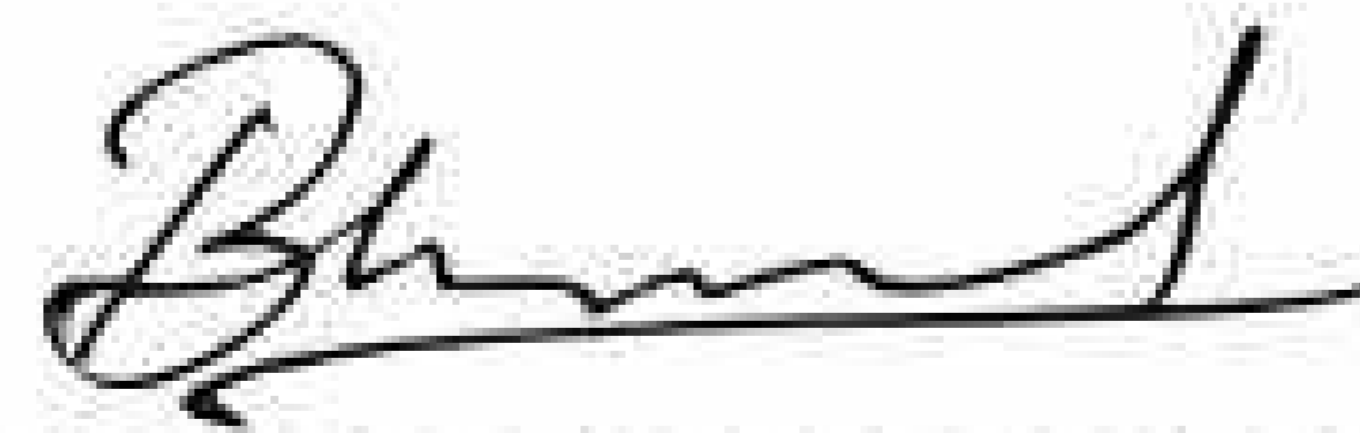
This is to certify that

**JAVVAJI MAHESH REDDY Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

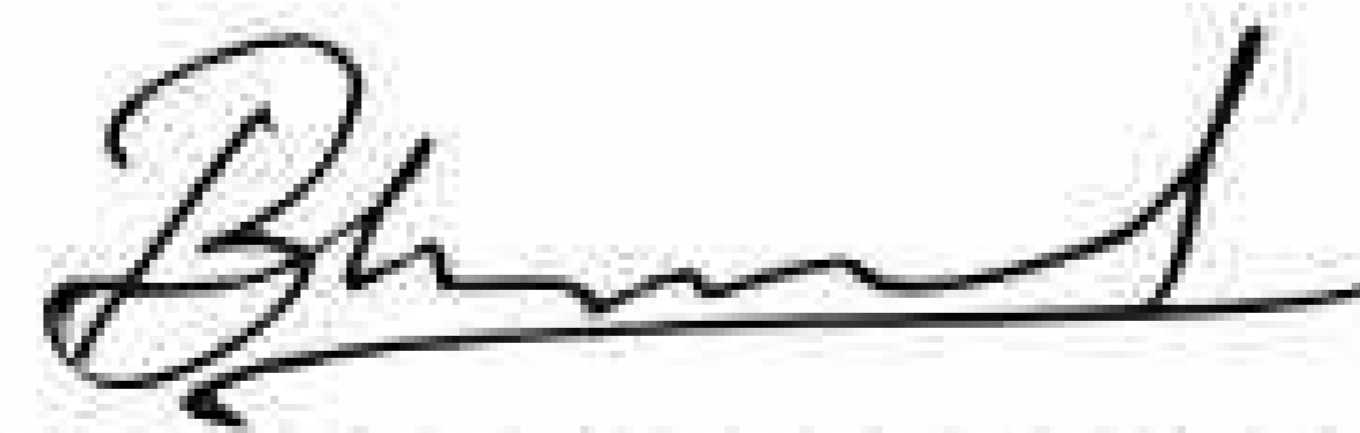
This is to certify that

**Nivas Reddy Velmula**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032





**Indian Institute of Technology Madras**  
**Centre for Continuing Education**

This is to certify that

**PALLA MOHAMMAD**

has successfully completed the **Foundational Level** in

**Programming and Data Science**

**August 2021**



21F1003766

Programme Coordinator

Director

Chairman, Centre for Continuing Education

*Swecha*

## Certificate of Internship

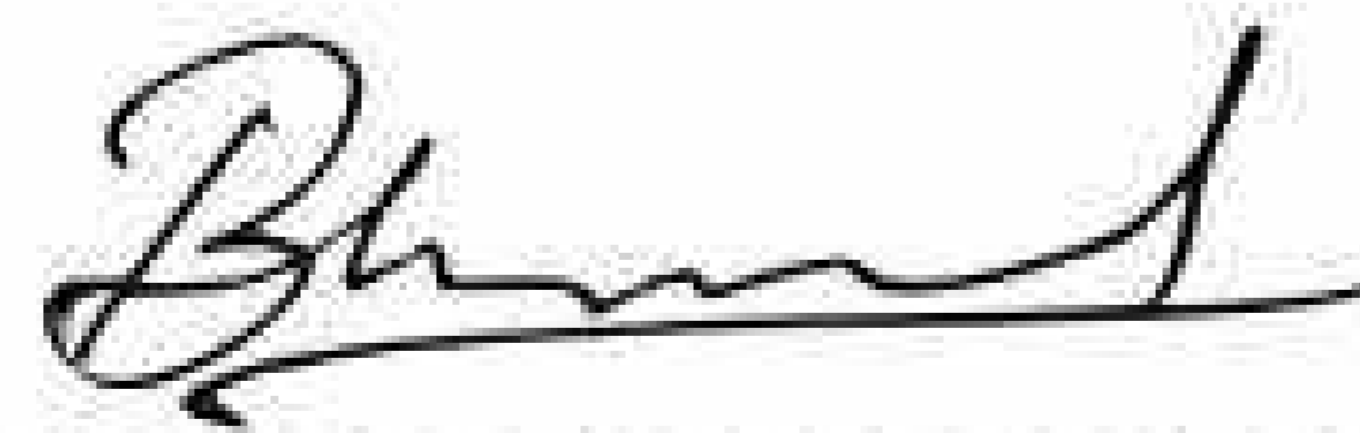
This is to certify that

**U Prashanth Chowdary Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21MG63S33632311

To  
PRATHAM REDDY  
502, SRI SAI APPARTMENTS, SHILPA NAGAR  
KUSHAIGUDA, MEDCHAL, MALKAZIGIRI  
ECIL  
TELANGANA - 500062  
PH. NO :7382545566



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**PRATHAM REDDY**

for successfully completing the course

## Innovation, Business Models and Entrepreneurship

with a consolidated score of **49** %

Online Assignments	19.17/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 2250

**Prof. V. C. Srivastava**  
Coordinator, Continuing Education Centre  
IIT Roorkee

Aug-Oct 2021  
(8 week course)

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



internship  
studio

CERTIFICATE  
OF INTERNSHIP

THIS IS TO CERTIFY

*K. Rajesh*

for completing 5 weeks of internship in Ethical Hacking with the title of  
**“Assessing Vulnerabilities”**  
at Internship Studio from 30th December to 3rd February 2022.  
We wish you all the best for your future endeavours.

ISSUE DATE: 04/02/2022

*Zeel Patel*

**ZEEL PATEL**

Internship Mentor

*Aniket Bihani*

**ANIKET BIHANI**

Founder & CEO

CERTIFICATE NUMBER  
ISEHI8058



*Swecha*

# Certificate of Internship

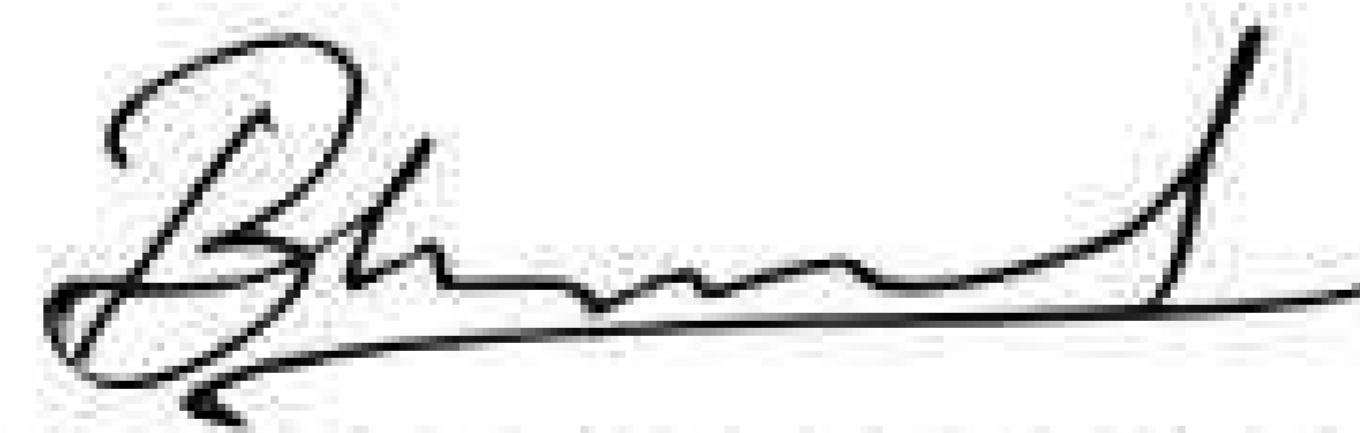
This is to certify that

**MADIREDDY RAMA KRISHNA REDDY**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

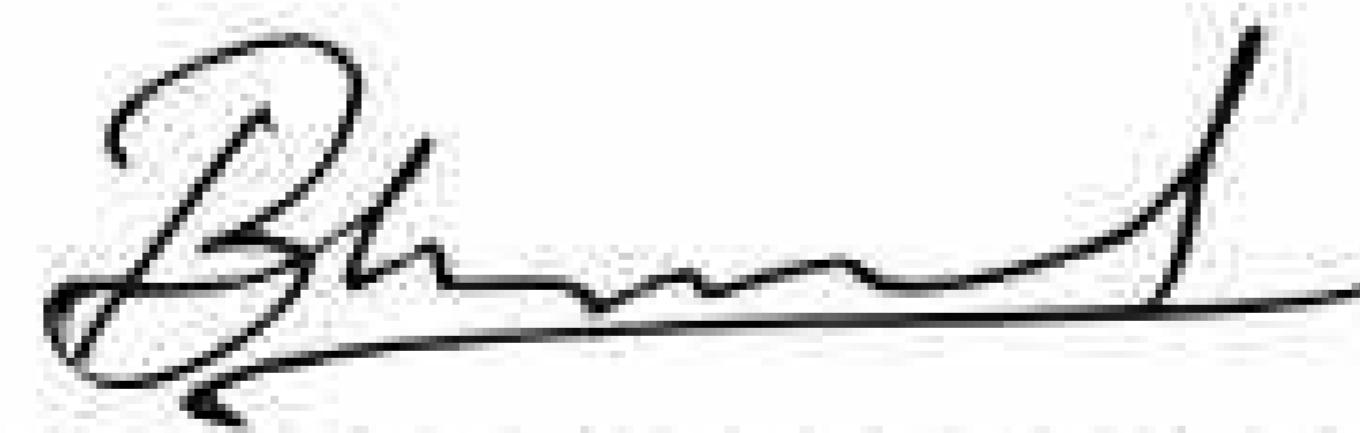
This is to certify that

**Sahakar Malleboina**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13630920

To  
V SAI CHARAN REDDY  
4-19,CHEPPIAL  
TELANGANA - 505501  
PH. NO :7993644174



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**V SAI CHARAN REDDY**  
for successfully completing the course



**Programming in Java**

with a consolidated score of **76** %

Online Assignments	24.25/25	Programming Exam	25/25	Proctored Exam	26.5/50
--------------------	----------	------------------	-------	----------------	---------

Total number of candidates certified in this course: 2632

  
Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

  
Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No:NPTEL21CS56S13630920

To validate and check scores: <https://nptel.ac.in/noc/>

*Swecha*

## Certificate of Internship

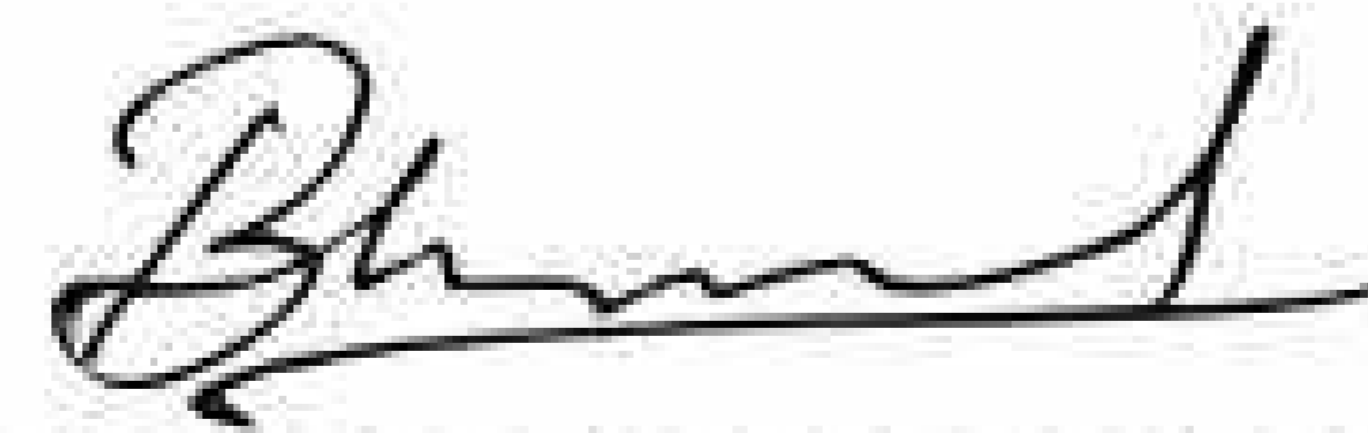
This is to certify that

**Peddi Sai Lohith**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



*Swecha*

## Certificate of Internship

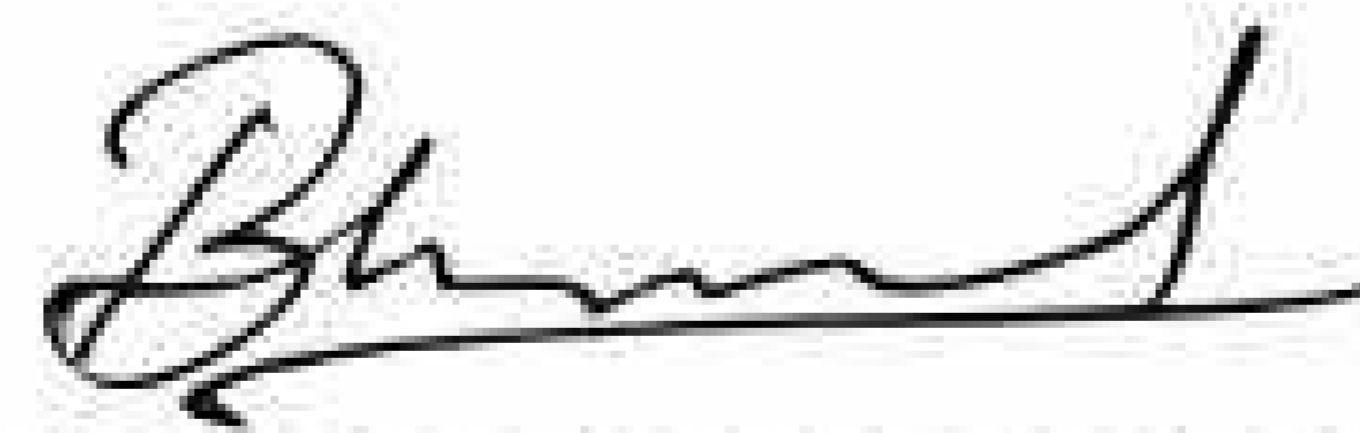
This is to certify that

**ALLADI SAI MANOJ**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

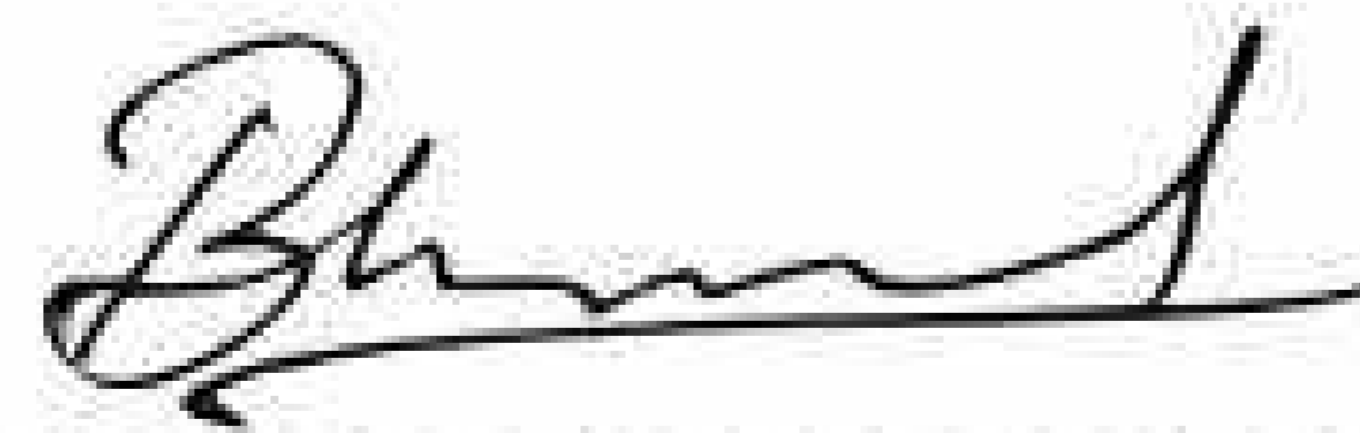
This is to certify that

**Medhansh T**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



Reset deadlines How it works

You've successfully completed the course! To access up-to-date course material, please re-set deadlines.

Reset my deadlines



Your computer's timezone does not seem to match your Coursera account's timezone (set to America/Los\_Angeles).

Learn more about timezones

### C++ Basic Structures: Vectors, Pointers, Strings, and Files

by Codio



Congratulations on getting your certificate!

You completed this course on January 15, 2022.

Grade received: 100%

Share Certificate

Download certificate

Rate this course

Rate this course ☆☆☆☆

You've completed the C++ Basic Structures: Vectors, Pointers, Strings, and Files specialization! Based on the skills you learned, you may find these courses helpful

- Week 1
- Week 2
- Week 3
- Week 4

Do you want to receive emails from Codio?

Yes



Reset deadlines How it works

You've successfully completed the course! To access up-to-date course material, please reset your deadlines.

Reset my deadlines

### C++ Basics: Selection and Iteration

by Codio



#### Congratulations on getting your certificate!

You completed this course on October 16, 2021

Grade received: 100%

Share Certificate

Download certificate

#### Rate this course

Rate this course ★★★★★

You've completed the C++ Basics: Selection and Iteration specialization! Based on the skills you learned, you may find these courses helpful.



C++ Object Basics: Functions  
Codio  
★★★★★



Object-Oriented C++: Introduction  
Codio  
★★★★★



Object-Oriented Design  
University of Alberta  
★★★★★

#### Instructor's Note

Dismiss X



Welcome to C++ Basics: Selection and Iteration! You're joining thousands of learners currently enrolled in the course. I'm excited to have you in the class and look forward to your contributions to the learning community. To begin, I recommend...

More

Week 1

Week 2

Week 3

Week 4

Do you want to receive emails from Codio?

Yes



Oct 16, 2021

# Sai Sathvik Reddy Bontu

has successfully completed

## C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE  
CERTIFICATE



Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

Verify at [coursera.org/verify/PSB3XSN57S6Z](https://coursera.org/verify/PSB3XSN57S6Z)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



Jan 15, 2022

# Sai Sathvik Reddy Bontu

has successfully completed

## C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

### COURSE CERTIFICATE

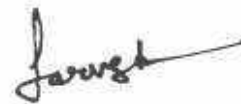


Verify at [coursera.org/verify/TX4QTUX75TBZ](https://coursera.org/verify/TX4QTUX75TBZ)  
Coursera has confirmed the identity of this individual and their  
participation in the course.

# Certificate of Training

**JALIGAPU SAISURAJ**

from CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY has successfully completed an 8-week online training on **Ethical Hacking**. In the training, JALIGAPU learned Basics of Information Security, Computer Networking and Web Development, Information Gathering and VAPT of some important vulnerabilities in the OWASP top 10, Automating VAPT, and Documenting and Reporting Vulnerabilities. JALIGAPU scored 91% marks in the final assessment and is a top performer in the training. We wish JALIGAPU all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-02-21

Certificate no. : EABEA170-0C53-1DC7-08F9-3458D4D9EC82

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)



## Certificate Verification

CFB9E70C-B1B6-E79E-69CF-4C3F62BFA892

VERIFY

Certificate number is valid

Name	Mr. Mule Saketh Reddy
Training name	Core Java
College name	Chaitanya Bharathi Institute of Technology
Final Test Score	99%
Date of certification	2022-01-23

### Programming Trainings

Programming with Python

Web Development

Ethical Hacking

Programming with C and C++

Android App Development

Core Java

React

Blockchain

Angular

Git & Github

How to Ace Coding Interviews

Data Structures & Algorithms

SAS Programming

Clinical Trials Analysis & Reporting

MATLAB



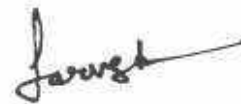
# Certificate of Training

**Mule Saketh Reddy**

from Chaitanya Bharathi Institute of Technology has successfully completed a 6-week online training on **Core Java**. The training consisted of Getting Started with Java, Leveraging Basic Concepts, Object Oriented Programming, and Java App Development modules.

Mule Saketh scored 99% marks in the final assessment and is a top performer in the training.

We wish Mule Saketh all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-23

Certificate no. : CFB9E70C-B1B6-E79E-69CF-4C3F62BFA892

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13633044

To  
SEELAM SANGI REDDY  
BANIGANDLAPADU VILLAGE, YERRUPALEM MANDAL  
TELANGANA - 507202  
PH. NO :9392972343



Score	Type of Certificate
$\geq 90$	Elite+Gold
75-89	Elite+Silver
$\geq 60$	Elite
40-59	Successfully Completed
$< 40$	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**SEELAM SANGI REDDY**  
for successfully completing the course  
**Programming in Java**

with a consolidated score of **81** %

Online Assignments	24.47/25	Programming Exam	25/25	Proctored Exam	32/50
--------------------	----------	------------------	-------	----------------	-------

Total number of candidates certified in this course: 2632

  
Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

  
Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21CS56S13633044

To validate and check scores: <https://nptel.ac.in/noc/>

*Swecha*

## Certificate of Internship

This is to certify that

**K Shiva Kiran**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

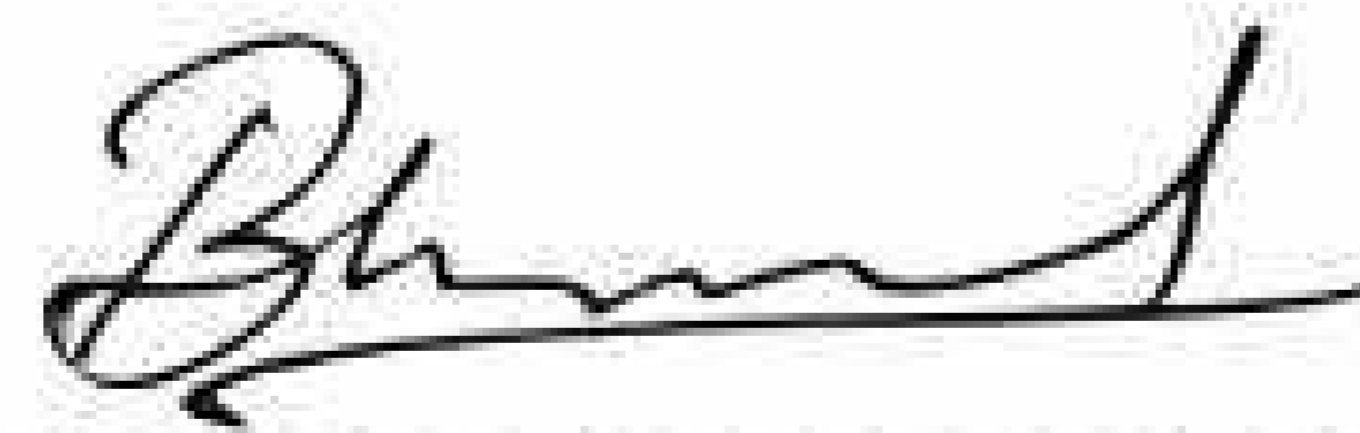
This is to certify that

**P N Siddharth Balaji Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



## Completed by **Kalluri Sri Sathvik Koundinya**

November 13, 2021

4 weeks of study, 2-3 hours/week

**Grade Achieved: 95%**

Kalluri Sri Sathvik Koundinya's account is verified.  
Coursera certifies their successful completion of [Java Basics: Selection and Iteration](#)

 **Share Certificate**

 **Download Certificate**



## Completed by **Kalluri Sri Sathvik Koundinya**

January 27, 2022

**4 weeks of study, 2-3 hours/week**

**Grade Achieved: 90%**

Kalluri Sri Sathvik Koundinya's account is verified.  
Coursera certifies their successful completion of [Java Object Basics: Functions, Recursion, and Objects](#)

 **Share Certificate**

 **Download Certificate**





Nov 13, 2021

# Kalluri Sri Sathvik Koundinya

has successfully completed

## Java Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

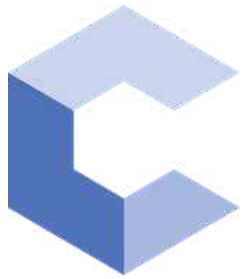
Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

COURSE  
CERTIFICATE



Verify at:  
[coursera.org/verify/5G7MXEYDU8N2](https://coursera.org/verify/5G7MXEYDU8N2)

Coursera has confirmed the identity of this individual and their participation in the course.



Jan 27, 2022

# Kalluri Sri Sathvik Koundinya

has successfully completed

## Java Object Basics: Functions, Recursion, and Objects

an online non-credit course authorized by Codio and offered through Coursera

A handwritten signature in black ink, appearing to read 'Patrick Ester'.

Patrick Ester, Curriculum Developer, Codio  
Anh Le, Curriculum Developer, Codio  
Elise Deitrick, PhD, VP of Product, Codio

COURSE  
CERTIFICATE



Verify at:  
[coursera.org/verify/47Y9J6SB8M52](https://coursera.org/verify/47Y9J6SB8M52)

Coursera has confirmed the identity of this individual and their participation in the course.



*Swecha*

## Certificate of Internship

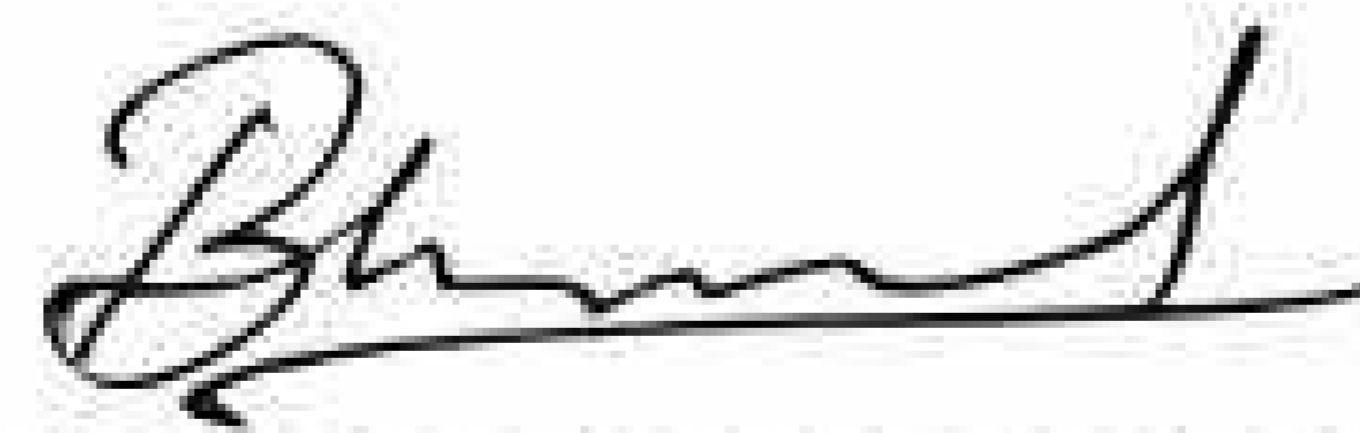
This is to certify that

**Srinivas Kommineni**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

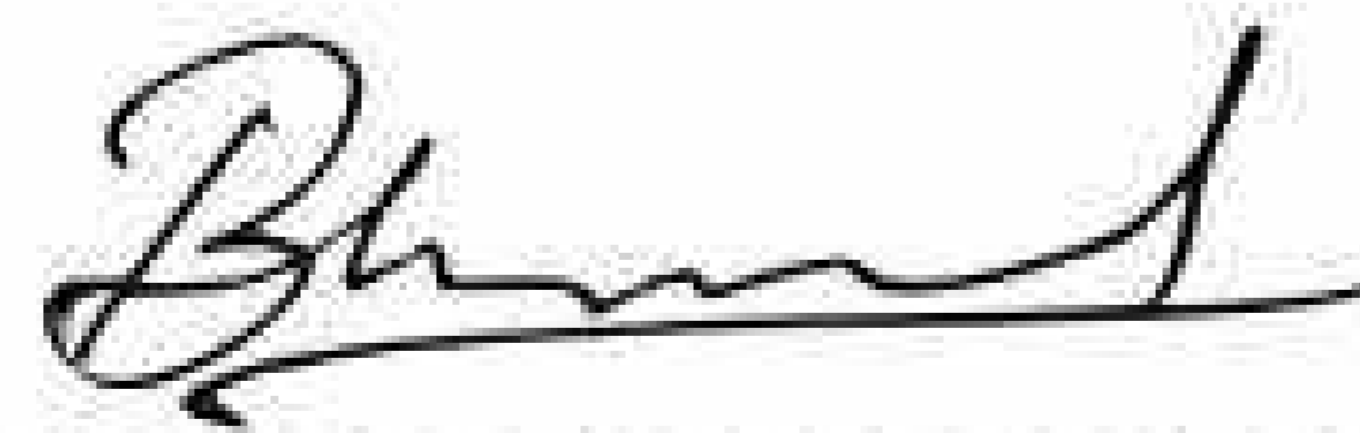
This is to certify that

**Mocharla.Srinivasa Rao Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

This is to certify that

**Tanish K**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

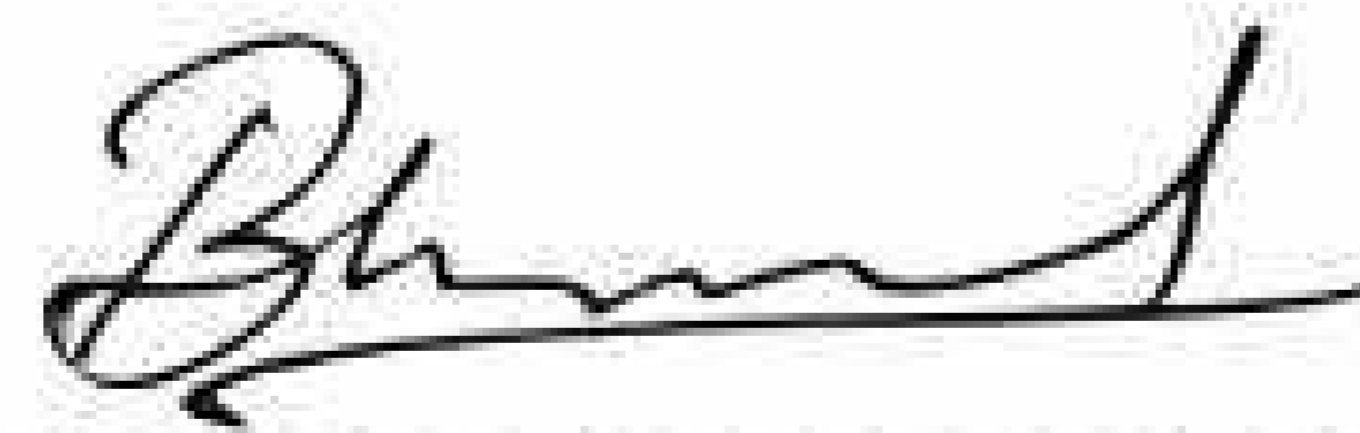
This is to certify that

venkat vikas reddy D

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



EXECUTIVE COMMITTEE MEMBER  
SWECHA

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

This is to certify that

**Naravarjhula Vibhavari Sharma Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

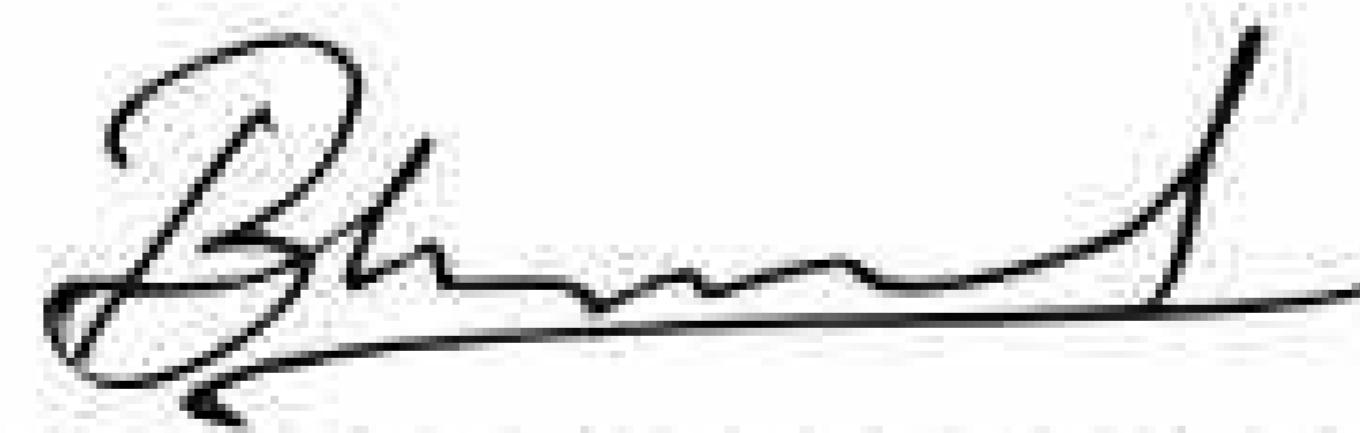
This is to certify that

**BARMA VISHWANTH Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

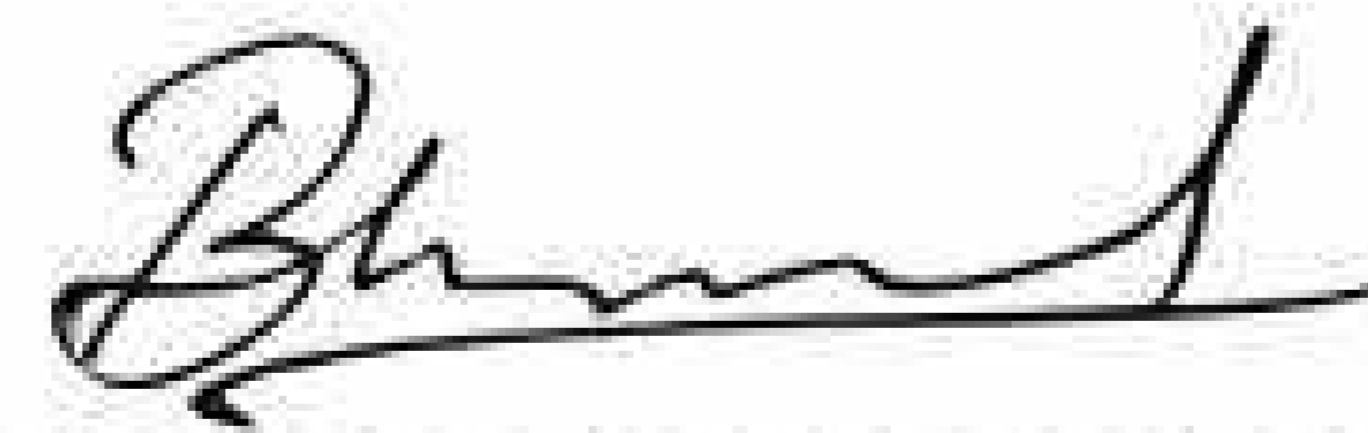
This is to certify that

**GOPARI VIVEK Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

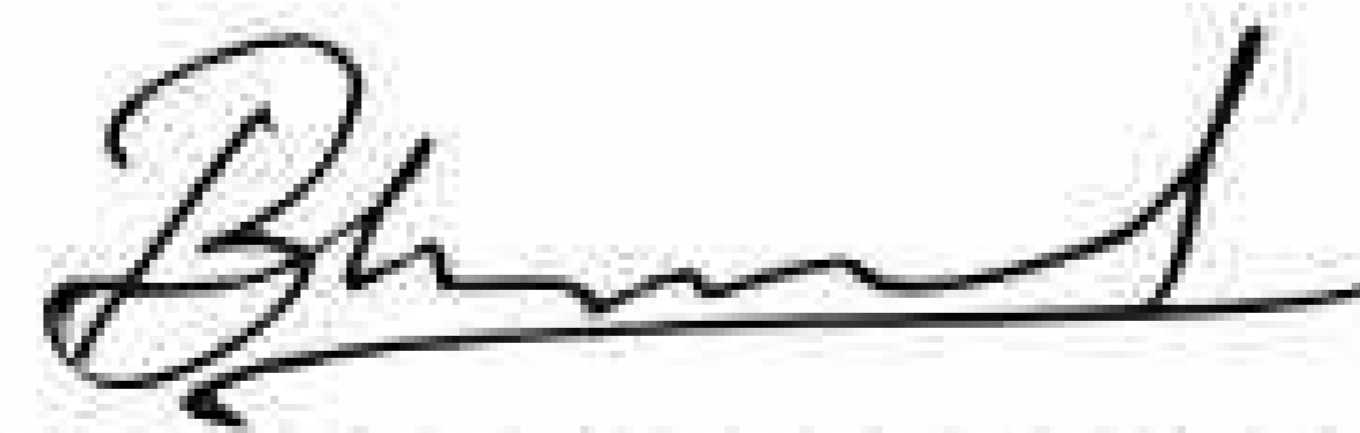
This is to certify that

**Enugula Rajendar**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032



*Swecha*

## Certificate of Internship

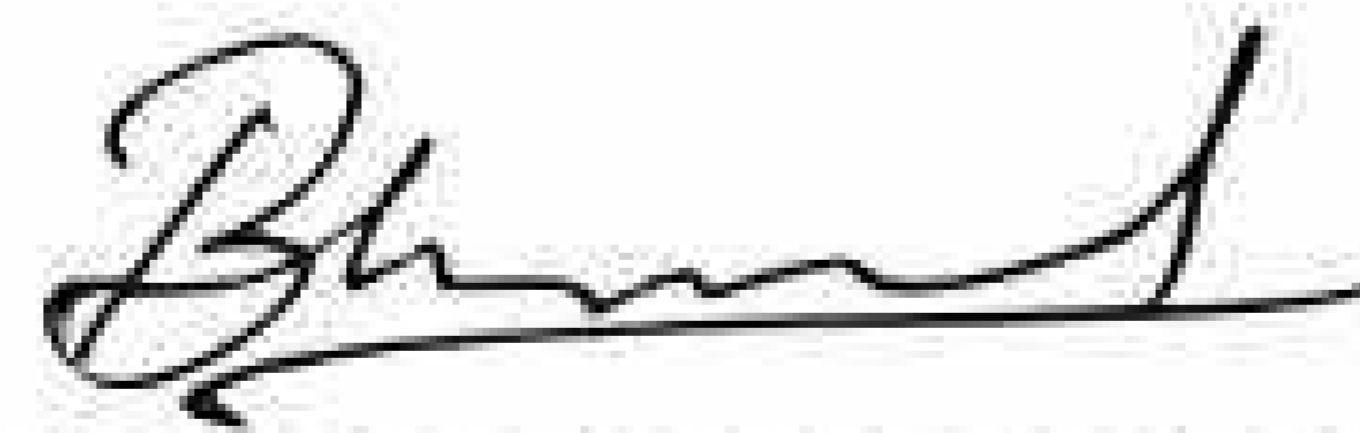
This is to certify that

**K Tejashwini Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

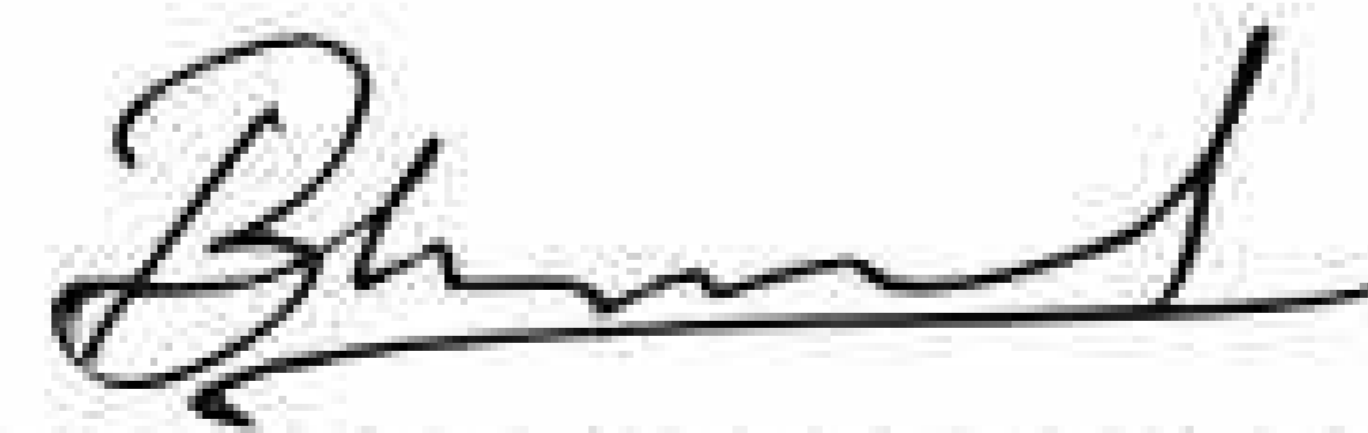
This is to certify that

**pentam Venkatesh**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

*Swecha*

## Certificate of Internship

This is to certify that

**Karkam manisha Cohort6**

from

**Chaitanya Bharathi Institute of Technology**

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER  
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,  
Madhava Reddy Colony, Gachibowli, Telangana 500032

# C E R T I F I C A T E

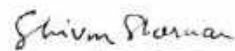
## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**VINAY KUMAR**

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5<sup>th</sup> November to 5<sup>th</sup> December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma  
(VP - Human Resources)



Student UIN : 2002534

Certificate no. : RA1713534