



CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)

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COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

42  
years

## Department of Information Technology

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Editorial Board - Kratika Sharma (Assistant Professor), Student Coordinator- Shaik Abdullah Adnan (160118737024)

### *Inside this Issue*

- Co-Curricular and Extra Curricular Activities
  - ❖ Events Organized
  - ❖ Workshops Attended
- Paper Publications by Faculty
- Book Chapter Publications by Faculty
- Achievements
  - ❖ Student Achievement
  - ❖ Faculty Achievements
- Alumni Activities
- Placements and Internships

### *Our Vision*

*To be a center of excellence in the field of information technology that yields pioneers and research experts who can contribute for the socio-economic development of the nation.*

### *Our Mission*

*To impart state-of-the-art value-based education in the field of Information Technology.*

*To collaborate with industries and research organizations and excel in the emerging areas of research.*

*To imbibe social responsibility in students.*

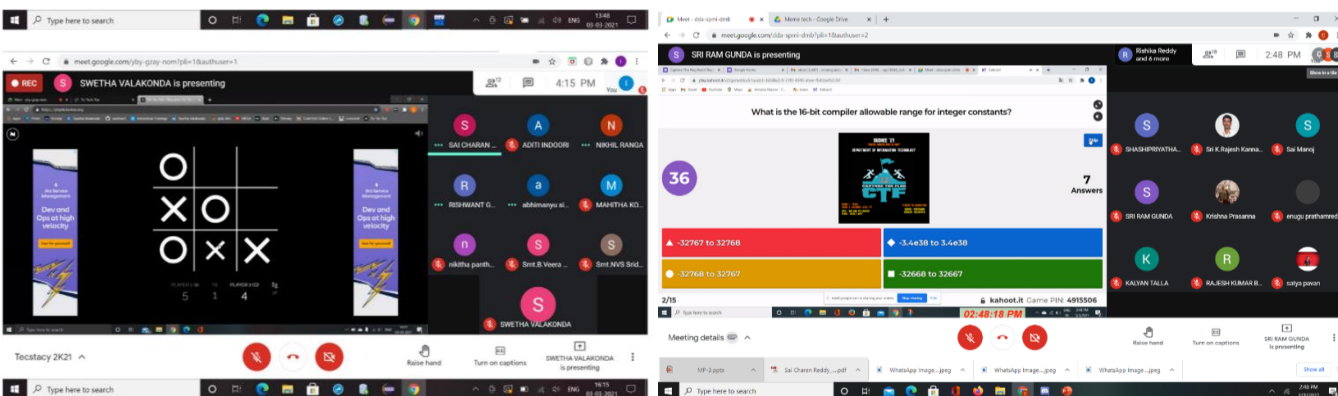
*To motivate students to be trend setters and technopreneurs.*

# 1. CO-CURRICULAR & EXTRA CURRICULAR ACTIVITIES

## 🌀 Events Organized

🌀 TECSTASY 2k21 Department of IT has organised **TECSTASY 2K21**, student technical fest under the aegis of SUDHEE 2K21, on 3rd and 4th March,2021. There are 13 technical events Paper Presentation, Duothon, Tech Fun, Tic Tech Toe, Code Hunt, Trace It, Blind Coding, Brain Boosters, Tech Virus,Meme Tech, Capture the Flag, Techie Connexion, Time Up organized as part of Tecstasy 2k21.

Students from all over the state participated and made it a grand success. Ms. Kratika Sharma and Ms T Satya Kiranmai are the faculty coordinators and Mr Jashwanth T and Ms Devi Abhigna A are the student coordinators.



TECSTASY 2K21

🌀 Two day Work shop on “**Data Science with Python**” is organized by IT Department. The resource person is from Pantech e Learning, a training Institute based on Hyderabad. Event is conducted online on 20-3-2021 & 21-03-2021 from 02.30PM to 03.30PM for the VI Sem Students, IT, and II Sem students of M.Tech (AI&DS) and the faculty coordinators for this programme are Ms. K Sugamy and Ms. E.Ramalakshmi.

🌀 Ms. T. Prathima has organized Boot Camp on “**Dynamic Programming**” Association with “Being zero and CBIT coding School” on 18-03-2021.

## 🌀 Workshops Attended

🌀 Dr M Venu Gopalachari has participated in Online Continuing Education Program on “Deep Learning and its Applications” conducted by Department of Computer Science and Engineering, NIT Warangal, from 26-04-2021 to 30-04-2021.

🌀 DR. M Venu Gopalachari has participated FDP on “IPR & Patent Prosecution” organized by the Department Computer Science and Engineering in association with Institution Innovation Council (IIC), MVSREC, Hyderabad from 24-May-2021 to 28-May-2021.

🌀 Dr M Venu Gopalachari has participated FDP on " Geoinformatics and Web Technologies" From 2021-05-18 To 2021-05-22 At Banasthali Vidyapith.

🌀 Dr M Venu Gopalachari has participated FDP on "Recent Trends In Digital Image Processing" from 2021-06-07 to 2021-06-11 at Poornima Institute Of Engineering & Technology.

🌀 Dr M Venu Gopalachari has attended International Workshop on “Building Data-Driven Solutions Using Data Analytics with ML and DL Algorithms” held virtually during 24 - 28 June, 2021 Department of CSE, CBIT(A), Hyderabad, Telangana.

- ☞ Dr M Venu Gopalachari has successfully completed the “Online Orientation Training Programme for Mentors” organized from 01 - 05 February 2021 under National Initiative for Technical Teachers Training.
- ☞ Dr M. Venu Gopalachari of has participated in FDP on “Research Writing” from 19th April to 23rd April 2021 organized by SRM Institute, Chennai.
- ☞ Ms.E Ramalakshmi attended FDP on "Artificial Intelligence", organized by Amity University Uttar Pradesh, from 01-11-2021 to 1/15/2021.
- ☞ Mr.K Gangadhara Rao attended FDP on “Quantum Computing” organized by Chaitanya Bharathi Institute of Technology Hyderabad, from 01-08-2021 to 1/21/2021.
- ☞ Mr.P Vasanth Sena attended Workshop on “CYBER SECURITY WORKSHOP” Organized by School of IT, JNTUH HYDERABAD TEQIP-III from 1/29/2021 to 1/30/2021.
- ☞ Mr.P Vasanth Sena attended FDP on "Block chain" Organized by CBIT HYDERABAD ATAL Academy from 01-04-2021 to 01-08-2021.
- ☞ Ms. Srilakshmi Anireddy has participated FDP on "Data Science for ALL" jointly organized by Electronics and ICT Academies at NIT Warangal, during 12th — 23rd April, 2021.

## 2. PAPER PUBLICATIONS BY FACULTY

### International Journals:

- ☞ Ragula Srinivas, **Dr. Pabboju,Suresh**, Dr. M. B. Raju, published a paper on “An Insight on Image Annotation Approaches and their Performances” in Turkish Journal of Computer and Mathematics Education (TURCOMAT) Vol.12 No.10, April 2021, e-ISSN 1309-4653
- ☞ K. Spandana, **Dr. Pabboju,Suresh**, published a paper on “Crop Prediction using Internet of Things(IoT) and Cloud Computing” in Gradiva Review Journal, Vol 7, Issue 6, 2021.
- ☞ **Dr. K. Radhika**, Ranjith Reddy Gaddam and Saiprakash Bollam, published a paper on “Machine Learning Based Approaches for Efficient Detection Of Malicious URLs”, International Journal of Computer Engineering and Applications, Vol XV, Issue III, March 2021, ISSN 2321-3469
- ☞ **Dr. K. Radhika**, Kolli Sessa Sai Hemanth. published a paper on "Detection of Denial-of-Service Attacks using Sequential Model", Volume 9, Issue V, International Journal for Research in Applied Science and Engineering Technology (IJRASET), Vol. 9, Issue V, Page No: 89-94, May 2021, ISSN : 2321-9653
- ☞ Mandru Suma Sri, **Dr. K. Radhika**, “Machine Learning for Intrusion Detection: A review of Latest Approaches”, High Technology Letters, Volume 27, Issue 2, 2021
- ☞ Kothakapu Jagadeeshwar Reddy, Manideep Chenna , Ragam Hari Haran , **Dr. K.Radhika**, published a paper titled “Bird Species Identification using CNN” in High Technology Letters, vol 27, Issue no.1, Jan 2021, ISSN: 1006-6748/2.7
- ☞ **Dr M Venu Gopalachari** published a paper titled “To Forecast Hospital Admissions from The Emergency Department Using Data Mining Techniques”, Journal of Interdisciplinary Cycle Research, ISSN NO: 0022-1945, Volume 13, Issue 4, Pp:1058-1065, April 2021.
- ☞ **Dr M Venu Gopalachari** published a paper titled “A Deep Learning Approach For Criminal Prediction Analysis”, Aegaeum Journal, Issn: 0776-3808, Volume 9, Issue 6, Pp: 213-219, June 2021.
- ☞ **Dr M Venu Gopalachari** and **S. Rakesh** published a paper titled “Hashtag Generation with Transfer Learning”, International Journal for Research in Applied Science & Engineering Technology, ISSN: 2321-9653, Volume 9, No.6, June 2021.
- ☞ **Dr M Venu Gopalachari** published a paper titled “Minimal Influential Node Set Detection in Social Networks”, Journal of Emerging Technologies and Innovative Research, Volume 8, Issue 6, Pp:680-

- ✎ **Sugamya Katta, SureshP, Sneha V**, published a paper titled “Image Retrieval using Hybrid Order Dither Block Truncation Code” International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429 ,Volume 9 Issue VI Jun 2021.
- ✎ **Sirisha, A.,Nihitha, V., Deepika,B.,”** Phishing URL Detection using machine learning Techniques”, in LectureNotes in Electrical Engineering, 2021
- ✎ **Dr. M. Trupthi, B. Swathi Sowmya**, published a paper on “An Approach for detecting Brain Tumourusing Hybrid Image”, in Mukth Shabd Journal, Vol-10 Issue-6, June 2021.
- ✎ **Dr. D. shanthi, Dr. M. Trupthi**, published a paper on “Block Chain Based Health Care System”, in Turkish journal of Computer and Mathematics Education, Vol-12,No.13(2021), 276-284.
- ✎ **E Ramalakshmi** published a paper titled “Effective Image Retrieval System based on Interactive Genetic Algorithm using Texture Features” Mukth Shabdh Journal, ISSN:2347-3150,vol X, Issue- II,pp 316-329, Feb 2021.
- ✎ **E Ramalakshmi** published a paper titled “Automated Surveillance and Alert Generation System”in Journal of Shanghai Jiaotong University, ISSN: 1007-1172, Volume 17, Issue 3, pp 27-31, March – 2021.
- ✎ **E Ramalakshmi** published a paper titled “Human writing to Computer Text Conversion”in HTL Journal, ISSN:1006-6748, Vol 27, Issue 4,pp 677-682, April 2021
- ✎ **Ms. K.Swathi** published a paper on “Eye gaze Communication and Tracking Systems”in International journal of Engineering and Techniques (IJET) 2395-1303 Vol.7, Issue 3, Jun-2021.
- ✎ **Dr. B.Veera Jyothi**, published a paper titled “Design and Development of a Fuzzy Logic Controller for Prediction of Outer Surface Finish of Flow Formed Component” in Journal of Shanghai Jiaotong University, UGC Care Approved (Group-II),Scopus indexed journal, Volume 17, Issue VI, June 2021.page no’s 33-41.
- ✎ **Dr. B.Veera Jyothi**, published a paper titled “Analysis On Employee Performance And 3d Printing Technique In Garment Industries” in the Sambodhi UGC Care Approved, Peer Reviewed and Referred Journal Published in Vol-44-No.01 (X) : May 2021,page no’s 117-120.
- ✎ **Dr. B.Veera Jyothi**, published a paper titled “Total Quality Management Analysis On Factors Affecting An Organizational Development” in the Journal of the Maharaja Sayajirao University of Baroda ISSN :0025-0422,UGC Care Group 1 journal Volume-55, No.1(VIII) May-June 2021,page no’s 1-7.
- ✎ **Mr. Santhosh Voruganti and Mr U Sairam**, published a paper titled “Digital Image Watermarking using Chaotic Encryption and Arnold Transform” in International Journal for Research in Applied Science & Engineering Technology Volume 9, Issue VI, June 2021 pages no’s 1825-1835, DOI Number 10.22214.
- ✎ **Santhosh Voruganti, U Sairam, S Meghana, M Sravanthi**, “Visual Question Answering with External Knowledge”, in International Conference on Smart Data Intelligence Elsevier, April,2021.
- ✎ **K.Gangadhara Rao, Keerthi Yeswanth, M.Sreedhar Goud,”** Crop Yield Prediction by using Machine Learning Techniques”, in Annals of R.S.C.B, Vol.25 Issue 6, May,2021, ISSN1583-6258
- ✎ **Kiranmai, T. S and Kratika Sharma**, published a paper on Recognition and Annotation Of Places Of Interest. International Journal of Research and Analytical Reviews (IJRAR), Volume 8 Issue 2, April 2021
- ✎ **Kiranmai, T. S.** published a paper on Glaucoma Detection using Convolution Neural Networks. International Journal of All Research Education and Scientific Methods (IJARESM), Volume 9, Issue 5, May -2021
- ✎ **Tadepalli S.K.** published a paper on “Instrument Recognition in Polyphonic Music Using Convolutional Recurrent Neural Networks” In Proceedings of International Conference on Intelligent Computing, Information and Control Systems (pp. 449-460). Springer, Singapore.
- ✎ **Kiranmai, T. S., & Lakshmi, P. V** published a paper on A Comprehensive and Systematic Literature Review of Computational Intelligence Algorithms to Diagnose and Predict Female Infertility. Annals of

the Romanian Society for Cell Biology, 5926- 5943

- ✎ **Kiranmai, T. S and Kratika Sharma** published a paper “Recognition And Annotation Of Places Of Interest” International Journal of Research and Analytical Reviews (IJRAR), Volume 8 Issue 2, April 2021
- ✎ **Kiranmai, T. S,** published a paper on Glaucoma Detection using Convolution Neural Networks. International Journal of All Research Education and Scientific Methods (IJARESM), Volume 9, Issue 5, May -2021
- ✎ **Kratika Sharma and Kiranmai, T. S,** published a paper on “Prediction of Cardiovascular Diseases Using Genetic Algorithm and Deeplearning Techniques”, International Journal of Emerging Trends in Engineering and Development, Issue 11, Vol.3, May 2021.
- ✎ **U sairam,Santhosh Voruganti** published a paper titled "Breast Cancer Prediction using CNN and Machine Learning Algorithms with Comparative Analysis" in International Journal for Research in Applied Science & Engineering Technology Volume 9, Issue VI, June 2021 pages no's 876-883,DOI Number 10.22214.
- ✎ **S.Rakesh and Dr.M.Venugopalachari** published a paper titled “Brain Tumor Detection using Deep Learning on MRI Image Dataset” in International Journal for Research in Applied Science & Engineering Technology Volume 9, Issue VI, June 2021 pages no's 2144-2148.
- ✎ **S. Rakesh** published a paper “Smart Irrigation And Leaf Disease Detection Using IOT And CNN” in the International Journal of Computer Science and Engineering (IJCSE) ISSN(P): 2278–9960; ISSN(E): 2278–9979 Vol. 10, Issue 1, Jan–Jun 2021; 75–84.
- ✎ **Priyadarshinee** published a paper on Analysing the adoption barriers for sustainability in the Indian power sector by DEMATEL approach. International Journal of Sustainable Engineering, January, 2021.
- ✎ **Swathi Sowmya Bavirthi, K. P. Supreethi,** “An Approach For Combining Spatial And Textual Skyline Querying Using Indexing Mechanism”, in Turkish Journal of Computer and Mathematics Education, Volume 12, Issue No.11, May 2021

### International Conferences:

- ✎ Ms. Prasanthi B, **Suresh Pabboju,** Vasumathi Devara Presented a paper titled “Feature Selection based Reduction in Dimensions and Indexing of Images for Efficient Image Retrieval “ in the International Conference on Emerging Smart Computing and Informatics (ESCI) AISSMS Institute of Information Technology, Pune, India. Mar 5-7, 2021.
- ✎ Sridhar Gujjeti, **Dr. Suresh Pabboju,** “Optimized Neural Network for Big data Classification using MapReduce Approach”, in 6th International Conference on Computing in Engineering and Technology (IC CET-2021)
- ✎ **Dr. M.Venugopalachari and S.Rakesh** presented a paper “Data Analytics Using Variational Autoencoder Using Iot” in First International e-Conference on Management , Science and Technology(ICMST-Online) organized by the Department of Computer Science , RBVRR Women’s College , Hyderabad, India in collaboration with Global Conference Hub, Coimbatore, India during 29th and 30th May 2021.
- ✎ **K.Sugama, B.Surya Samantha** and Vamsi Krishna presented a paper , “The Verge of Extinction” in International Conference on “Emerging Trends in Circuit branch Technologies and Applications (ETCTA- 2021) “virtually on 3rd -4th April 2021 at Chaitanya Bharathi Institute of Technology (A), Hyderabad – 500 075, Telangana, India.
- ✎ **Katta Sugama,** presented a paper titled “A Smart system for monitoring Old people's comfort living using IoT” in International Conference on Mathematical and Techniques and Applications(e-ICMTA-2021) organized by SRM Institute of Technology, Tamilnadu, India during 24th to 26th March 2021.
- ✎ **Sirisha Alamanda, S.Veena Madhuri** ,“ Stock Price Prediction on News Data and Market Data Using ML Techniques” in International Conference On Emerging Trends In Circuit-Branch Technologies And



Applications-2021,3<sup>rd</sup> -4<sup>th</sup> April 2021.

- ☞ **Sirisha Alamanda ,Pravallika Elluri**, “Survey on Diabetic Retinopathy Detection “, in International Conference On Emerging Trends In Circuit-Branch Technologies And Applications-2021,3<sup>rd</sup> -4<sup>th</sup> April 2021.
- ☞ **M.Trupthi**, “Estimating Savings Potential of Solar Energy”, in 2 nd International Conference for Emerging Technology(INCET), 21st-23rd May 2021.
- ☞ **Ms.T. Prathima**, VSVS Varma, Prathyush K, "Detection of Armed Assailants in Hostage Situation- A Machine Learning based approach" in the 3rd International conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV-2021) held during 04th-06thFeb 2021 organised by Francis Xavier Engineering College, Tirunalveli, India.
- ☞ **Santhosh Voruganti , U Sairam , S Meghana , M Sravanthi** presented a paper,“Visual Question Answering with External Knowledge” in ELSEVIER International Conference on Smart Data Intelligence on 29th April 2021 at Kongunadu College of Engineering and Technology Trichy,India.
- ☞ **K. Gangadhararao**, “A Novel Speaker Diarization and Transcription method for Multichannel audio”, in online international conference on Intellectual Systems, Electrical and Communication Technology-2021(ICISECT-2021), held on 9th and 10th of April,2021.
- ☞ **K. Gangadhararao**, “A Novel Teaching Aid using OpenCV”, in international e-conference on Sustainable Innovation, Research & Emerging Trends in Entrepreneurship, held on 3rd April 2021.
- ☞ **Mr U Sairam, Mr V Santhosh, MV Bhanu Prakash, Mr R Govardhan Reddy** presented a paper “A Study on IoT Applications Towards Impact of Loss of Data” in 5th International Conference on Trends in Electronics and Informatics (ICOEI 2021) conducted from 03-june 2021 to 05-june-2021.

### 3. BOOK CHAPTER PUBLICATIONS BY FACULTY

- ☞ **Dr B.Veera Jyothi**, Co-authored a book titled “Introduction to Operations Research” ,ISBN number 10-1639407987 by Xpress Publishers, during May 2021.
- ☞ **S. Rakesh Published** a book chapter Titled “Sign Language Recognition using Convolutional Neural Networks” in the Book Titled J. S. Raj et al. (eds.), Innovative Data Communication Technologies and Application, Lecture Notes on Data Engineering and Communications Technologies 59, [https://doi.org/10.1007/978-981-15-9651-3\\_58](https://doi.org/10.1007/978-981-15-9651-3_58).
- ☞ **Mr.P. Vasanth Sena, Dr M Venu Gopalachari** Published book chapter titled “A Mining Framework for Efficient Leakage Detection and Diagnosis in Water Supply System”, in A Mining Framework for Efficient Leakage Detection and Diagnosis in Water Supply System, Springer Nature Singapore, ISBN: 978-981-15-7960-8, October 2020.

## 4. ACHIEVEMENTS

### 🌀 Student Achievements

- 🌀 **Shivani Datha** -160117737080 and **Sindhu Sreeram** -160117737081, published a paper on “Personality Prediction for Ehr System, International Journal of Research and Analytical Reviews” (IJRAR), 2021
- 🌀 **B Aahan Reddy**-160117737031 **S Raghavendra**-160117737048, published a paper on “Human Writing To Computer Text Conversion”, High Technology Letters, Volume 27,issue 4, April 2021
- 🌀 **Saiprakash** -160117737052, **Ranjith** -160117737050, published a paper on “Machine Learning Based Approaches for Efficient Detection of MALICIOUS URLS”, International Journal of Computer Engineering and Applications, IJCEA issn 2321-3469, Vol XV, Issue III, 2021
- 🌀 **Shoieb** -160119737054, attended an Online event “Communicando” organized by” Edc-cbit” and won a cash prize of Rs.1500 on 6-03-2021.
- 🌀 **Yash Bhatnagar** -160119737032, attended an Online event “Communicando” organized by” Edc-cbit” and won 3rd prize on 5-03-2021.
- 🌀 **Vangdale Shiva** -160119737301, attended an Online event “Communicando” organized by” Edc-cbit” and won a cash prize of Rs.1000 on 5-03-2021.
- 🌀 More than 100 students have attended Web Development Workshop organized by COSC

### 🌀 Faculty Achievements

- 🌀 Mr. Kommu gangadhararao, Rajesh kannan k, Beri. Suryasamantha, Ramasani govardhanreddy, published a **patent** on “A Hybrid Scheduling System for Offloading In Mobile Cloud Computing And Edge Computing”, April 2021 (Indian Patent)

## 5. ALUMNI TALK

- 🌀 Dr .M.Thrupthi and Ms. K.Swathi has organized Alumni talk on “**Cloud computing and DevOps**” with association Gathi Analytics Pvt Ltd (Startup) by IT Dept., CBIT on 06-02-2021 for the benefit of the VI –sem students as an eye opener for them in trending technologies like Cloud computing and DevOps. The key speaker of the event is Mr. Saikumar Ellendula, an alumnus of CBIT, 2008-2012 Batch. He addressed the students in the emerging technologies like Cloud computing and DevOp.

## 6. PLACEMENTS

Academic Year 2020-21 Placements			
s.no	Name of the Company	Annual Package in Lakhs	No. of Students Placed
1	ServiceNow	25	5
2	GoldmanSachs(Off campus)	23	1
3	F5	22.5	1
4	JPMC (internship based)	14	4
5	JPMC	14	1
6	Oracle GBU	11	1
7	Google (Off Campus)	11	1
8	Oracle NBU	11	3
9	Tecnic	10	1
10	Accolite	9	1
11	Factset	8.9	1
12	Micron	7.5	5
13	Deloitte	7.5	6
14	LTI	7.5	9
15	Deloitte(TAX)	7.5	6
16	Accenture	4.5 , 6.5	15
17	Hexagon	6.1	2
18	LTI	5	18
19	VISA	15	2
20	MTX	14	1
21	Cognizant	4.5	10
22	Capgemini	3.8	11
23	Model N	7	1
24	Arcesium (Intern based conversion)	60k per month(22.5 FTE)	1
25	Amazon ACMS(internship)	50K per month	3
26	GE Appliances internship	20k per month	2