Name of Faculty	Dr. D. Sathyanarayanan	
Designation	Assistant Professor	
Nature of Job/Appointment	Regular	
Date of Joining	09-07-2024	
E-mail	sathyanarayanand_cseaiml@cbit.ac.in	

Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy	Awarded
PG	M.E (CSE)	First Class
UG	B.E (CSE)	First Class

Work Experience

Teaching	24 Years
Research	08 years
Industry	--
Others	--

Area of Specialization	Machine Learning, Data Mining, Deep Learning, Algorithms
Professional Memberships	1. Life member of Indian Society for Technical Education (ISTE). 2. Life member of International Computer Science and Engineering Society (ICSES) 3. Member of International Association of Engineers (IAENG) 4. Member of International Association of Engineers
Responsibilities held at Institution Level	1. Involved in community development projects 2. Planned and installed thin client lab. 3. NIVA Coordinator
Responsibilities held at Department Level	1. Active Member in Criteria 3 and 5 2. Department Exam Coordinator 3. Member in various committees (Staff affairs, Curriculum Review, Social) 4. Member of curriculum committee, framed course curriculum for Post graduate courses.
Research Guidance	--
Awards Received	Elite Silver Certification in [Accreditation and Outcome Based Learning] NPTEL (OCT 2023)
Courses Handled at Under Graduate / Post Graduate Level.	Undergraduate Level: - Compiler Design, Computer Networks, Machine Learning, Computer Graphics, Data Structures, Complexity Theory, Data Analytics, Network Security, Cryptography, Network system administration, Analysis of Algorithms, Post Graduate Level: - Mobile communication, Multimedia technologies, Advanced Data Structures
No. of Papers Published	National Journals – 00 International Journals – 07

National Conference – 01   International Conference – 05

Projects Carried out	UG Projects: 30, PG Projects:1

Patents:-

Patents	1. "A Novel Approach of Biomarker Detection By Optical High Sensitivity Nano Sensors". Publication: 11/09/2020 No. 202041037311 2. "A Novel Method for Emotion Detection of Child Autism Spectrum Disorder (ASM) Using Machine Learning". Publication: 31/07/2020 No. 202041029727
Technology Transfer	--
Invited Speaker	--
No. of Books/Chapter Published with details	01

OC/RC/STTP/FDP/ Workshops attended:-

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Trainings **(Attended and/or organized).**	**1** Attended workshop on "Networks and Connectivity", organised by ISTE SVCE Chapter between 6th and 7th of June 2002.
	2 Participated in the training program on "Public Key Infrastructure and Digital Signatures", conducted by Engineering Staff College of India, Hyderabad between 19th and 20th February 2004
	3 Attended faculty Development programme on "Component Based Technology", sponsored by Center for Faculty Development, Anna University, from 29/11/2004 to 04/12/2004.
	4 Participated in National level staff development programme on " Recent Trends in Network Technologies", sponsored by AICTE and organized by Saveetha Engineering college from 21/04/2010 to 28/04/2010
	5 Participated in national workshop on "Quality Education" held at University of Gondar, from 5th to 8th march 2011.
	6 Participated in workshop "Durability Enhancement of Marine & Offshore Structures" held at AMET University Campus, Chennai on 27th & 28thAugust 2015
	7. Participated in "Data Science using Python", Organized by Department of Information Technology In association with Swecha, Lakireddy Bali Reddy College Of Engineering.- 15th to 24th May 2020
	8. NPTEL FDP on Natural Language Processing (NLP) Apr 2024

Details of Journal Publications/ Conferences **(National and International)**

International Journals:-

1. D.Sathyanarayanan, M.Krishnamurthy, "An Efficient Association Rule Based Dynamic Support Count Adaptation Model for XML Databases using XQuery" International Journal for Applied Engineering Research. ISSN 0973-4562 Vol.10, Number 6 (2015) pp. 16129-16147.

2. D.Sathyanarayanan, M.Krishnamurthy, "Association Rule Mining Using Frequent Itemsets Generation by Anti- Mirroring of Bit Vectors" International Journal of Pure and Applied Mathematics, Vol.118 No.20 2018, pp.5033-5044, ISSN: 1314- 3395.

3. D.Sathyanarayanan, Dr. M.Mohamed Sirajudeen, "Implementation of VLSI interconnect design", International Journal of Advanced Technology and Engineering Exploration, Vol. 5(42). ISSN (Print):

2394-5443 ISSN (Online): 2394-7454, 2018.

4. Dr. M.Mohamed Sirajudeen, D.Sathyanarayanan, "Enhancing the Load Balancing in Data flow Transmission for Data Centers by Using an Binary Heap Routing Protocol (BHRP)" International Journal of Advance Engineering and Research Development Vol. 5, Issue 04, April -2018

5. D.Sathyanarayanan, M.Krishnamurthy, "Efficient Intelligent Generic Recommendation Knowledge Graph in Education Domain using Association Rule Mining and Machine Learning" International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-10, August 2019.

6. D.Sathyanarayanan, Dr.S.Vatchala, R. Sridevi, A. Sathish, "SOA-GF: Spiral Optimized Algorithm with Gabor Filter for Automatic Lung Cancer detection and Classification" Design Engineering ISSN: 0011-9342, Year 2021, Issue: 6, Pages: 3464-3476.

7. "Development Of Utility Based Improved Association Rule Mining Algorithm", NeuroQuantology, July 2022, Volume 20, Issue 8, Page 4981-4987

International Conferences:-

1. D.Sathyanarayanan, M.Krishnamurthy, "Association Rule Mining Using Frequent Itemsets Generation By Anti Mirroring Of Bit Vectors" at International Conference on knowledge-based computing technologies Conducted by KCG College of Technology, Chennai, India.

2. M.John Basha, D Sathyanarayanan,S.B. Viswanath, A. Prabakaran, "An Improvised Method for Anomaly Detection in Social Media using Deep Learning", International Conference on Electronics and Renewable Systems (ICEARS 2022) IEEE Xplore Part Number: CFP22AV8-ART; ISBN: 978-1-6654-8425-1.

3. D.Sathyanarayanan, Dr.T.Srinivasa Reddy, Dr. A. Sathish, Mrs.P.Geetha, Dr. J.R. Arunkumar, Dr. S. Prem Kumar Deepak, "American Sign Language Recognition System for Numerical and Alphabets", International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering, Nov 2023.

4. "IOT Based Air Pollution Controlling Monitoring System-1116" in the 1st IEEE International Conference on Multidisciplinary Research in Technology and Management – MRTM 23, organized by New Horizon College of Engineering, Bengaluru on 22nd & 23rd September 2023.

5. "Improving Data Security In Cloud Storage Using Multi Authority Attribute Based Encryption-1115" in the 1st IEEE International Conference on Multidisciplinary Research in Technology and Management – MRTM 23, organized by New Horizon College of Engineering, Bangalore on 22nd & 23rd September 2023.