Name : **Dr.S.Poornima**
Designation : Assistant Professor
Mail ID : poornima.s@uce.annauniv.edu



➢ **Research Area**: Data Analytics, Speech Processing

➢ **Educational Qualifications**:

Qualification	Department	Year (From – To)	Percentage	Class
Ph.D.	Information and Communication Engineering	2025	-	-
M. Tech.	Information Technology	2011 - 2013	91	First Class with Distinction
MBA	Human Resources Management	2010 - 2013	70	First Class
B.E.	Computer Science and Engineering	2005 - 2009	88	First Class with Distinction

➢ **Experience: (14.6 Years)**

Name of Company / Institutions	Designation of Post	From	To	Experience in Year
		DD-MM-YYYY	DD-MM-YYYY	
University College of Engineering, Ariyalur	Assistant Professor	05.12.2025	Till Date	0.6
Coimbatore Institute of Technology	Assistant Professor (Selection Grade)	02.06.2011	03.12.2025	12.5
Easa College of Engineering and Technology	Assistant Professor	08.09.2010	10.05.2011	0.8
Tata Consultancy Services, India	Assistant Systems Engineer	24.09.2009	04.06.2010	0.9

➢ **Additional / Academic Responsibilities at University:**

- Mentor of Naan Mudhalvan for III B.E – CSE Students
- Project Guide for IV BE CSE Students

➢ **Professional Activities:**

- Member of ACM
- Life time Member of AI-ML Innovative Entrepreneurs and Engineers Association
- Completed ISAC certified Cyber Crime Intervention Officer (CCIO) Course in March 2024

➢ **Completed B.E/M. E Projects:**

- Real Time - DDOS Attack Deduction and Mitigation Based on Transfer Learning with Multi-Layer Perceptron
- Heart disease Prediction using Ensemble Machine Learning
- An Automation of Credit Card Fraud Detection System using XGBoost Technique
- Machine Learning based Self Identification of Mental Health
- Question Generation Based on Performance Analysis
- Legal Contract Analyzer using LLM and RAG
- AI Powered Real Time Detection of Abnormal Behaviors of Women
- Med Verify: A Blockchain - Based Medicine Verification System for Counterfeit Drug Detection
- Prediction of Rainfall using Machine Learning
- Facial Expression Analysis of Students in Classroom using Machine Learning Technique

➢ **Sponsored Research Activities: Nil**

➢ **List of Seminar / Short Term Course /FDP/ Workshop attended: (Within India)**

- Attended “Naan Mudhalvan Course” on Big data from 05.01.2026 to 10.01.2026
- FDP on Introduction to Internet of Things by NPTEL, IIT Kharagpur

- Virtual APEX Faculty Development Program on Cybersecurity from 06.10.2025 to 10.11.2025
- Government Officer Training –Basic on Cloud Computing conducted by CDAC Noida as part of Future Skills PRIME Project held during 13.10.2025 to 17.10.2025
- Workshop on “Writing Successful Research Proposals for Funding” at CIT by NITTTR, Chennai on 27.03.2025
- Five days’ workshop series on “Mentoring the mentors” organized by CIT from August 2024 to February 2025 conducted by Transactional Analyst.
- ATAL Academy Faculty Development Program on Responsible AI at PSG College of Technology from 09.12.2024 to 14.12.2024.
- Online FDP on “Emerging AI enabled Technologies” by Department of IT, CIT from 8.03.2024 to 23.03.2024
- Online FDP on “Generative AI Models” by Department of CSE, CIT from 05.02.2024 to 10.02.2024
- Online FDP on “Deep Learning and AI based Healthcare Systems” by Department of CSE, CIT from 18.12.2023 to 24.12.2023
- Online FDP on “Cyber Security - An Insight and Practical Approach” by the Department of Computer Science and Engineering, SSN College of Engineering from 30.01.2023 to 03.02.2023
- FDP on "Problem Solving with Data Science: Tools and Techniques" organized by Department of CSE and IT, Coimbatore Institute of Technology, Coimbatore from 22.03.2021 to 26.03.2021
- FDP on "Scalable Machine Learning on Big data" organized by Department of CSE and IT, Coimbatore Institute of Technology, Coimbatore from 15.03.2021 to 19.03.2021
- Online Seminar on "Reinventing Project Management: Approach for Successful Growth and Innovation in Industries" by Coimbatore Institute of Technology, Coimbatore on 15.10.2020
- Two Days International Online FDP on "Recent Research Trends in Engineering Perspective" by Coimbatore Institute of Technology, Coimbatore-14 from 12.08.2020 to 13.08.2020
- Webinar on "Asymptotic Analysis of Algorithms" by ACM Student chapter of Coimbatore Institute of Technology, Coimbatore on 08.07.2020

- Webinar on “Machine Learning with R” by SNS College of Technology on 16.05.2020
- Webinar on “Next Generation Database: NOSQL & Big data” by SNS College of Technology, on 09.05.2020
- TEQIP-III Sponsored Two-day virtual learning workshop on "Design, Develop and Deliver online courses through MOODLE platform by Coimbatore Institute of Technology from 16.04.2020 - 17.04.2020
- FDP on "Deep Learning and Machine Learning" by NIT, Meghalaya, from 22.07.2019 to 27.07.2019
- GIAN course on “Autism and Assisted Technologies”, at NIT Jalandhar, Punjab, from 10.12.2018 to 14.12.2018
- TEQIP III sponsored Short Term Training program on “Correlation of AI and ML in research perspective” at Coimbatore Institute of Technology, from 03.12.2018 to 09.12.2018
- Workshop on Research Scholars Empowerment Programme (RSEP – II), at Teaching Learning Centre, Coimbatore Institute of Technology, from 24.10.2018 to 28.10.2018
- AICTE - QIP Sponsored One-week Short Term Course on “Opportunities and Challenges in IoT (Use cases and Security Issues)” at Coimbatore Institute of Technology from 07.05.2018 to 13.05.2018
- AICTE - QIP Sponsored One-week Short Term Course on “Privacy Preserving Data Analytics” at Coimbatore Institute of Technology from 02.01.2018 to 08.01.2018
- AICTE Sponsored One Day National Seminar on “Multi model Object Analysis” at Coimbatore Institute of Technology on 21.08.2017
- AICTE - QIP Sponsored One-week Short Term Course on “Next Generation Computing” at Coimbatore Institute of Technology 24.04.2017 to 30.04.2017
- Two-day workshop on “Machine Learning Techniques for Image-Based Applications” at SSN college of Engineering, Chennai from 09.02.2017 to 10.02.2017
- UGC Sponsored Two Days’ Workshop on “Microsoft Azure and Cloud Applications” at Coimbatore Institute of Technology from 23.11.2015 to 24.11.2015
- AICTE – QIP sponsored Short Term Course on “Predictive Analytics in Cloud” at Coimbatore Institute of Technology from 12.10.2015 to 18.10.2015

- UGC Sponsored Workshop on “Big Data Analytics - Techniques and Tools” at Coimbatore Institute of Technology from 14.11.2014 to 15.11.2014
- UGC Sponsored Workshop on “Research Issues and Challenges in IoT on Cloud Computing” at Coimbatore Institute of Technology from 06.10.2014 to 10.10.2014
- TEQIP II sponsored Workshop on “Amazon Cloud Services and Microsoft Azure Cloud” at Coimbatore Institute of Technology on 23.08.2014
- TEQIP II sponsored workshop on “Software Quality and Automated Testing with Rational Quality Manager/ Functional Tester” at Coimbatore Institute of Technology organized by Cranes Software, Bangalore, an IBM Seed Partner & Coimbatore Institute of Technology from 11.08.2014 to 13.08.2014
- TEQIP II sponsored workshop on “Visual Modeling using UML using IBM Rational Software Architect” at Coimbatore Institute of Technology organized by Cranes Software, Bangalore, an IBM Seed Partner & Coimbatore Institute of Technology from 26.02.2014 to 28.02.2014
- Live Web Ex Author Workshop on “Publishing Process in Scientific Journals” at Coimbatore Institute of Technology on 11.09.2013
- TEQIP sponsored Faculty Development Programme on “SOA and Web services – Issues and Challenges” at PSG Tech from 06.11.2013 to 12.11.2013
- UGC Sponsored Workshop on “Business Analytics Tools and Application” at Coimbatore Institute of Technology from 23.08.2013 to 24.08.2013

➢ **International Conferences Participated:**

- International Conference on IoT, Communication and Automation Technology (ICICAT), Gorakhpur, India, 2024
- Second International Conference on Artificial Intelligence and Smart Energy (ICAIS), Coimbatore, India, 2022

➢ **Publications:**

a. International Journals:

- S.R. Janani, Poornima. S, Aruna R, Chandru Vignesh C, “AquaSense-AMC: An adaptive modulation-control model for energy-efficient communication in underwater IoT networks”, Sustainable Computing: Informatics and Systems, Volume 49, 2026

- Poornima.S, Elankumaran.K, Nandana M, Sudharsan, “Legal Contract Analyzer using LLM and RAG”, Grenze International Journal, Grenze International Journal of Engineering and Technology (GIJET), Volume 12, Issue 1, 2026.
- Poornima S, Brundha T, Ghayathri S V, Deivapriya K, “AI Powered Real Time Detection of Abnormal Behaviours of Women – A Review”, International Journal of All Research Education and Scientific Methods, October 2025
- Poornima.S, Abitha Begam M,Dharshini K,Akshaya P, Yuvasri P, “Secure Federated AI for Multi-Hazard Detection-A Review”, International Journal for Research Trends and Innovation, October 2025
- Poornima S, Ranjit T N, Sanjith Sivendra K, Vasan S, Kawin K S, “Med Verify: A Blockchain - Based Medicine Verification System for Counterfeit Drug Detection”, International Research Journal on Advanced Engineering Hub, July 2025
- S. Poornima, Darius Jonathan D, Karthikeya Vishwa N, Prem Kumar D, Ramesh V, “Question Generation Based on Performance Analysis”, International Research Journal on Advanced Engineering and Management, Volume 2, pp 2758-2762, August 2024
- S. Poornima, G. Kousalya, “Analysis of emotion in autism spectrum disorder children using Manta-ray foraging optimization”, Biomedical Signal Processing and Control, Volume 92, 2024.
- Poornima.S, G.Kousalya, “Towards voice based prediction and analysis of emotions in ASD children”, Journal of Intelligent & Fuzzy Systems, vol. 41, no. 5, pp. 5317-5326, November 2021
- S.Poornima, S.Devi, D.Oviya, A.Suhana Taj, G.Tamil Elakkiya, “Prediction of Rainfall using Machine Learning”, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-9 Issue-1, May 2020
- S.Devi, S.Poornima, Kaviya Sri A.M, Monisha Devi .G, Mownika. M, “Cloud Based Reasoning Health Data using Homomorphic Encryption”, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-9 Issue-1, May 2020
- Poornima.S, S.P.Abirami, G.Kousalya, “Facial Expression Analysis of Students in Classroom using Machine Learning Technique”, International Journal of Current Advanced Research, Volume 8, Year 2019, Pages 18072-178077
- S.R.Janani, C.Sathya, S.Poornima, "WordNet Sense Disambiguation Based Patent Search", IOSR Journal of Computer Engineering (IOSR-JCE), e-ISSN:

2278-0661,p-ISSN: 2278-8727, Volume 16, Issue 6, Ver. VIII, pp 48-52, Nov – Dec. 2014.

- Poornima.S, Radha Senthilkumar, "Keyword Search on Compact XML Structure with Ranking", Online Journal of Compusoft - An International Journal of Advanced Computer Technology, Vol No.1, pp 65-69, May 2013.

b. Conferences

- S R Janani, S Poornima, S K Shakthi Shree, S Sanuj, T Subash, P Vasanth, “Generative AI and Design Thinking for Lumpy Skin Disease Prediction using Machine Learning”, 4th International Conference on Information Technology, Civil Innovation, Science, and Management (ICITSM), April 2025
- S. Poornima, R. Agalya, M. Gayathri, A. Hari and S. S, “Machine Learning based Self Identification of Mental Health”, 2024 International Conference on IoT, Communication and Automation Technology (ICICAT), Gorakhpur, India, 2024, pp. 1072-1077, doi: 10.1109/ICICAT62666.2024.10923396.
- Poornima.S, G.Kousalya, "Deep Learning based Behavioral Analysis and Exploration of Emotions in ASD Children," 2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS), Coimbatore, India, 2022, pp. 504-509
- Poornima.S, Radha Senthilkumar, "Keyword Search on Compact XML Structure with Ranking", AICTE Sponsored National Conference on Communication and Informatics (NCCI-2013), May 2013