

FACULTY PROFILE

Faculty



Ms. Hemalatha Shanmugam

EDC Coordinator

Assistant Professor – Computer Science & Engineering

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Profile

Ms. Hemalatha Pugalenthil received her Bachelor of Engineering degree in Electronics and Communication Engineering from Sona College of Technology, Salem, Tamil Nadu, and her Master of Science in Computer Engineering from the University of Massachusetts, Lowell, USA, graduating with Honours with a GPA of 3.8/4.0. She is a Computer Science Educator and Corporate Trainer with hands-on experience in curriculum design, employability skills training, and educational technology.

She currently serves as Assistant Professor in the Department of Computer Science and Engineering and as EDC Coordinator at East Point College of Engineering and Technology. Prior to this, she worked as a College & Corporate Trainer and Curriculum Developer at Skillsphere Education, Bangalore (July 2023 – March 2026), training more than 200 college and corporate learners in communication, presentation skills, leadership and professional readiness, and designing structured curriculum integrating theoretical concepts with real-world applications. She has also worked in an industry role as an Associate in Data & Documentation (December 2021 – July 2023), supporting internal teams with data handling, process documentation, and the development of internal mobile and web-based applications.

She has published research in peer-reviewed journals, and has contributed as a resource person and judge at institutional workshops, webinars and innovation events. She has independently conceptualised and developed an AI-assisted Attendance and Leave Management System deployed organisation-wide, and led the development of an agentic AI-based research and distribution system automating discovery of opportunities relevant to EPCET students and faculty.

Highlights

	• Trained 200+ college and corporate learners in communication skills, presentation skills, leadership, and professional readiness. • Designed and delivered structured curricula integrating theoretical concepts with real-world applications, including assessment frameworks and activity-based modules. • Conceptualised and developed an AI-assisted Attendance and Leave Management System, successfully deployed organisation-wide. • Developed and maintained internal mobile and web-based applications supporting day-to-day business operations. • Experienced in bridging academic learning with industry expectations through practical training, tool development, and AI-driven solutions. <u>Publications</u> <i>Journals</i> • Choon Kit Chan, Bakkiyalakshmi B., Hemalatha S., D. Udaya Suriya Rajkumar, S. Sushma, Bai Yuqi (2026), “Knee Osteoarthritis Detection and Classification from X-ray Images,” Pain, Joints, Spine, Volume 16, No. 5s, pp. 808–823, DOI: 10.1922/pjs.16.5S.2026.864, ISSN 2224-1507 (print) / 2307-1133 (online). <u>Professional Courses Completed</u> • Agent AI Mastery – Infosys Springboard, completed 23 May 2026 • Design Thinking – Infosys Springboard, completed 23 May 2026 • Advanced Data Structures & Algorithms in Java: Working with Graph Algorithms – Infosys Springboard, completed 11 May 2026 • SnowPro Associate: Platform – Snowflake, issued 3 May 2026, valid until 3 May 2028 (Certification ID: S150576-260503-SOL) <u>Achievements / Awards / Recognitions</u> • Resource Person, Faculty Development Program on “Design and Development of AI Agents using LLMs,” Dept. of CSE, EPCET, 1 June 2026 • Participant, Faculty Development Program on “Design and Development of AI Agents using LLMs,” Dept. of CSE, EPCET, 1–6 June 2026 • Distinguished Judge, AVIAOTOR – I-Club Pitchathon: The Innovation Sprint, Dept. of ISE, EPCET, 6 May 2026 • Resource Person, IIC-TR Webinar “From Skills to Startups: Nurturing Innovation Among Students,” Dept. of CSE, EPCET, 28 February 2026 • EDC Coordinator, Design Thinking Workshop, Dept. of CSE, EPCET, 15 May 2026 • Resource Person, Session on Start-Up Legal and Ethical Steps, Dept. of ISE, EPCET, 6 May 2026 • Participant, Workshop on Convolutional Neural Networks – Applications and Advancements, CMR Institute of Technology, 15–19 June 2026 • Developed “Event Monitor for EPCET,” an agentic AI-based research and distribution system automating discovery of hackathons, internships, FDP/SDP programmes and conferences relevant to EPCET — the first run (2 July 2026) returned 77 verified opportunities, now refreshed on a weekly automated schedule.
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| | <ul style="list-style-type: none">● Five-Day Faculty Development Programme on “Next Generation Data Science: From Analytics to Agentic AI” – Dept. of CSE (Data Science), EPCET, 6–10 July 2026 (Participant) |
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