

Faculty Profile: Ms. Triveni N

	Ms.Triveni N Assistant Professor Ph.D. Scholar — IoT & AI Researcher & Educator East Point College of Engineering & Technology Email id triveninagaraj33@gmail.com Phone +91 9590011911 LinkedIn linkedin.com/in/triveni-n-680186 Vidwan-ID : 559610 Vidwan Profile Page Orchid ID- https://orcid.org/0009-0009-7774-4183 Google Scholar ID- Triveni N - Google Scholar Research Gate- ResearchGate Address : Sri Maruthi Nilaya, 1st Main, 1st Cross, Vinayaka Nagar, Hagadur, Whitefield, Bangalore – 560066, India
	Profile Triveni N is a highly knowledgeable Assistant Professor with a strong academic foundation, currently pursuing a Ph.D. in IoT & AI. Dedicated to designing and delivering impactful educational programs, she specializes in curriculum development, research, and scholarly publication, contributing significantly to academic progress and student achievement. She brings proven expertise in mentoring students through strong analytical and communication skills, employing evidence-based teaching strategies to enhance engagement and optimize learning outcomes.
	Area of Specialization Internet of Things (IoT), Artificial Intelligence, Deep Learning, Machine Learning
	Publications 2021 - Paper: "Literature Survey on Early Detection of Breast Cancer Using IoT and Supervised Learning Techniques," Gradiva Review Journal (UGC-CARE-approved), May 2021. 2022 - Paper Presentations at International Conference on Nano Composites for Aerospace Applications, Cambridge College of Engineering: "IoT-Based Air Pollution Monitoring and Data Analytics Using Machine Learning Approach"; "Intelligent IoT-Based System for Smart Water Management and Distribution." 2023 - Paper: "Optimizing Routing Protocols for IoT Networks With Mobile Devices," IJARSCT, Vol. 3, Issue 2, Aug 2023. - National Conference (Emerging Trends in Engineering, Technology & Management), April 26–27, 2023 — papers: "Automated IoT Based Irrigation System for Farmlands and Crop Protection Using Arduino"; "Caption-Based Image Retrieval"; "Bird Species Sound Recognition: A Deep Learning Approach." - Paper: "Automated IoT Based Irrigation System for Farmlands and Crop Protection Using Arduino," High Technology Letters (Q4), Vol. 29, Issue 8, Aug 2023. - Paper: "Survey on Providing Convenient and Secure Access to Homes by Contactless Doorbell Using Artificial Intelligence and IoT," High Technology Letters (Q4), Vol. 29, Issue 8, Aug 2023.

	- Paper: "IoT Based Air Pollution Monitoring and Data Analytics Using Machine Learning Approach," IJSR, Vol. 12, Issue 6, June 2023. 2024 - Book Chapter: "A Comprehensive Exploration of Security and Privacy Hurdles in the Connected World in Safeguard IoT," ICMR-2024, ISBN: 978-93-90188-68-0. - Paper: "Improving Health Information Security in Mobile Cloud Computing with Blockchain and Modular Encryption Techniques," IJSR, Vol. 13, Issue 9, Sept 2024. DOI: 10.21275/SR24917200045. - Paper: "Smart Water Grids: An IoT Driven Approach to Enhance Water Management Efficiency," High Technology Letters (Q4), Vol. 30, Issue 1, Jan 2024. - Book Chapter: "Chauffeur Behavior Recognition Using Face Recognition and Deep Learning," Futuristic Trends in Artificial Intelligence, e-ISBN: 978-93-6252-530-7, IIP Series, Vol. 3, Book 10, Part 5, Ch. 1. 2026 - Book Chapter: "Deep Learning for Intelligent Systems: Methods, Tools, and Real-World Solutions," IIP Series, Vol. 6, S1011B3, July 2026. - Journal Paper: "AI and Deep Learning-Assisted Smart Drug Delivery System with IoT-Based Patient Monitoring," International Journal of Drug Delivery Technology (IJDDT), Vol. 16, Issue 58s, 2026. - Conference Paper: "AI and IoT Enabled Solar Thermal Cooking Systems for Sustainable and Clean Energy Access in Tribal Communities," 2026 4th IEEE ICKECS, April 24–25, 2026. DOI: 10.1109/ICKECS70176.2026.11527760.
	Workshops, FDPs & Seminars 2020 - Workshop "Setback to Comeback," ISKCON — Dec 2020. 2021 3-Day Workshop on Trends in Cloud Computing, Nagarjuna College of Engineering — 2021. - Training on Cybersecurity and Web Application Security, Digital Age Strategies Pvt. Ltd. — 2021. 2-Day FDP on Mobile Application Development, CITECH — 2021. - Webinar "Standardizing the Specifications of a Biogas Run Dual Fuel Diesel Engine for Stationary Applications," CITECH — 2021. 2022 - Resource Person session on Exploring IoT Concepts Through Python Programming, CITECH. - Evolve-Faculty Engagement Program, SAMSUNG — Oct 2022. - Webinar "Skilling Tomorrow," IBM — Sep 2022. - One-Week FDP on Amazon Web Services, Brainovision — Aug 2022. - Workshop "Road Map for Innovation in You," CITECH — May 2022. - Road Safety and Traffic Awareness Program, CITECH — May 2022. - Training on eSaksham, Cyber Peace Foundation, AICTE & Ministry of India — 2022. "My Story by Successful Entrepreneurs," CITECH — 2022. 2023 - Webinar on Research Symposium on Synergistic Innovation, RNSIT — Nov 17, 2023.

	• 5-Day FDP on Image Processing Using Python, MEVI Technologies LLP — Sep 11–15, 2023. • National-Level FDP on Cloud Infrastructure (AWS), AIT with Brainovision Solutions and AICTE — Aug 21–25, 2023. • 5-Day National-Level FDP on Generative AI and Cyber Security, DST-sponsored, Reva University — Jul 24–28, 2023. • One-Week AICTE-VTU Joint Teacher Training Program on Python Programming and Its Applications — Jun 19–23, 2023. • National Conference on Leveraging Research, Innovation & Digital Learning Technologies for Better Educational Inclusion, Chennai — Mar 2023. • IP Awareness Training Program, National Intellectual Property Awareness Mission (NIPPAM) — Mar 2023. 2024 • FDP National Level Short-Term Training Program on Java Full Stack with React JS and AI, SEA College of Engineering and Technology with Brain of Vision Solutions and AICTE — Dec 2–22, 2024. • One-Day Workshop on Virtual Labs, Garden City University with Amrita Virtual Labs — Sep 27, 2024. • 10-Day FDP on Revolutionizing Education Through ICT – Exploring Innovative Applications, Malaviya Mission Teacher Training Program — Oct 21–30, 2024 (achieved "A+" grade). • 7-Day Workshop on Blockchain Technology, Future Start — May 10, 2024 (Certificate of Excellence). • 5-Day Training Program on Data Science using Python, Brainovision Solutions — Feb 19–23, 2024. • One-Day Workshop on AI for Students: Build Your Own Generative AI Model, NXT WAVE™ — May 26, 2024. • 3-Day Workshop on Redefining Research Skills: Enriching Research and Publications, Ashoka Women's Engineering College — Jun 3–5, 2024. 2025 • AICTE ATAL FDP on "Organic Semiconductors in Quantum Sensing and AI: Future Technologies for Battlefield Superiority," AICTE ATAL Academy at East Point College of Engineering and Technology — Sep 18–24, 2025. • Entrepreneurship Awareness Programme (EAP), Ministry of MSME via Central Institute of Tool Design (CITD), Hyderabad, at SEA College of Engineering & Technology, Bengaluru — Oct 30, 2025. 2026 • Five-day National FDP on "Agentic AI: Design, Development & Real-World Applications," RNS Institute of Technology (RNSIT), Bengaluru, with Spoken Tutorial, EduPyramids & SINE, IIT Bombay — Mar 9–13, 2026. • Six-Day Virtual FDP on "Transformative Approaches in Computing Paradigm – Machine Intelligence and Quantum Computing," Dr. M.G.R. Educational and Research Institute — May 25–30, 2026. • One Week FDP on "Next-Gen Frontiers: Integrating Generative AI, Machine Learning, and Cyber Security (NG²MX-2026)," VIPS-Technical Campus, New Delhi — Jun 1–5, 2026. • AI Tools Mastery Workshop, Clapingo — May 31, 2026. • Workshop on Convolutional Neural Networks: Applications and Advancements, Dept. of AI & ML, CMR Institute of Technology, Bengaluru — Jun 15–19, 2026.
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	Patents Filed • A System and Method for Automated Detection and Classification of Ocular Diseases Using Deep Learning Algorithms — Patent No. 202541037837 Patent Office Journal No. 20/2025, dated 16/05/2025 • AI and IoT Enabled Solar Thermal Cooking System for Sustainable and Clean Energy Access in Tribal and Remote Communities — Patent No. 202641008813 Application Date: 27-02-2026 • AI-Based Healthcare System for Rural Communities — Patent No. 202641069436 Application Date: 12-06-2026 • Securing Agentic AI Systems: Security Risks in Autonomous AI Agents, Prompt Injection Prevention, and Trust Management Frameworks — Patent No. 202641076110 Application Date: 26-06-2026 • LLM-Powered Autonomous Security Operations Center: AI-Assisted Threat Intelligence and Automated Incident Response Using Multi-Agent Systems — Patent No. 202641075974 Application Date: 26-06-2026
	Awards & Honours • "Young Emerging Faculty Award – Pride of Education," ESN Publications of Research and Development — Dec 2024. • "Uttama Adyapika Award," Bharat Education Excellence Awards, recognizing exemplary contributors to research and education — May 2024. • Nelson Mandela Inspire Award 2025, in recognition of inspiring spirit, courageous action, and dedication to positive change.