Dr. Antony Pradeesh

Assistant Professor & Innovation Manager

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Assistant Professor and Innovation Manager with 8 years of experience in IoT and AI. Notable for developing over 200+ IoT prototypes, guiding teams in SIH competitions, and completing a PhD in Electronics focused on IoT and Deep Learning-based Smart Healthcare. Skilled in mentoring students, securing funding for innovative projects, and fostering entrepreneurship. Experienced in public speaking and academic research, with a commitment to inspiring future innovators.

Accomplishments

- Secured a ₹1,60,000 grant from the **Department of Science and Technology (DST)** to conduct a six-week **TEDP (Technology Entrepreneurship Development Program) on IoT**.
- Mentored two **NGI NewGen IEDC projects** worth ₹5 lakhs, funded by DST, Govt. of India, and managed two **TNSCST government projects**, including "AI-based Personal Assistant for Blind People" and "Human-Elephant Conflict Prevention using AI."
- Secured **14 Indian patent publications** including **Indian design grant**, showcasing expertise in IoT and AI-driven innovations.
- Served as a **mentor and evaluator for national-level competitions**, including **Smart India Hackathon (SIH) 2023 and 2024 Hardware editions** and **Google Developer Student Clubs (GDSC).**
- Published **6 Scopus-indexed journals** in IoT and ML, including **IEEE** publications.
- Recognized with **"Excellent Faculty"** and **"Best Faculty for Patent Publications"** awards for outstanding contributions to academia and research.

Education

Apr 2025 — **Ph.D.: Electronics (IoT And Deep Learning)**
Bharathiar University - Coimbatore, India
Highly Commended by foreign and Indian examiners

May 2014 — **Master of Technology: Embedded Systems**
Hindustan Institute of Technology And Science - Chennai, India

May 2011 — **Master of Science: Electronics And Communication Systems**
Sri Krishna Arts And Science College - Coimbatore, India

May 2009 — **Bachelor of Science: Electronics And Communication Systems**
Sri Krishna Arts And Science College - Coimbatore, India

Work History

Nov 2021 - Current

Assistant Professor & Innovation Manager

KG College of Arts and Science, Coimbatore, India

- Trained science and engineering students in Artificial Intelligence and Embedded Systems through engaging and practical sessions.
- Secured a ₹1,60,000 grant from the Department of Science and Technology (DST) to conduct a six-week TEDP (Technology Entrepreneurship Development Program) on IoT.
- Spearheaded IoT and ML innovations with over 200+ IoT-based prototypes developed, facilitating patent applications as **KAPILA Coordinator** with 4 patents filed.
- **Served as a resource person for Faculty Development Programs (FDPs) and hands-on IoT workshops at autonomous engineering colleges across India, including NIT Warangal.**
- Shortlisted for the **Professor of Practice** (Associate Professor) position at Seshadri Rao Gudlavalleru Engineering College, Andhra Pradesh.
- Submitted and secured approval for two Glue Grant Project proposals as Principal Investigator, finalized by Bharathiar University for funding.
- Mentored participants in prestigious programs like Amazon AWS DeepRacer, Smart India Hackathon (SIH) 2023 and SIH 2024 (Mysore and Noida editions). Also guided Google Developer Student Clubs.
- Spearheaded IoT and ML innovations with over 200+ IoT-based prototypes developed, facilitating patent applications as KAPILA Coordinator with 4 patents filed.
- Acted as SPOC for SIH 2024 and served as GDG Faculty Mentor, fostering a developer ecosystem in college.
- Active IIC Member
- Pioneered the prototype-to-product approach, encouraging students to transition into entrepreneurs.

May 2017 - Nov 2021

Assistant Professor & EDC Project Manager

Nehru Arts And Science College, Coimbatore, India

- Mentored and successfully completed two NewGen IEDC projects worth ₹5 lakhs, sponsored by DST, Govt. of India.
- Secured and executed two TNSCST Government projects under the Innovative Project Scheme: "Artificial Intelligence-based Personal Assistant for Blind People" and "Human-Elephant Conflict Prevention using AI."
- Delivered expert lectures as a resource person on "Internet of Things" across various institutions, sharing practical insights and advanced knowledge.
- Served as the Convener of the Entrepreneurship Development Cell, organizing skill-based workshops on IoT to enhance students' learning and entrepreneurial skills.
- Evaluated student performance through comprehensive assessments, identifying areas of improvement and providing targeted feedback for growth.

Skills

- IoT & AI Specialist
- Android Developer
- Amazon AWS Developer
- Microsoft Azure Developer
- EDC Project Manager
- Faculty CEO
- Consultant for startups
- Mentoring students
- Public speaking
- Academic research

Certifications

Apr 2025 Patent Drafting for Beginners (NPTEL-AICTE)

Jan 2025 Architecting Smart IoT Devices (EIT Digital)

Nov 2024 Exploratory Data Analysis for Machine Learning (IBM)

Aug 2024 Version Control with Git (Atlassian)

Jun 2024 Smart Device & Mobile Emerging Technologies (Yonsei University)

Mar 2024 Introduction to Electronics(Georgia Institute of Technology)

Publications (Scopus ID: 58163020500)

- D. Antony Pradeesh, N. P. Subiramaniyam, "IoT-Enabled Smart Health Monitoring System with Deep Learning Models for Anomaly Detection and Predictive Health Risk Analytics Integrated with LoRa Technology," International Journal of Engineering Trends and Technology, vol. 73, no. 1, pp. 14-46, 2025. Crossref, https://doi.org/10.14445/22315381/IJETT-V73I1P102.
- Antony Pradeesh D, Subiramaniyam, N. P. "INTEGRATING ADVANCED CONVOLUTIONAL NEURAL NETWORKS AND IOT IN HEALTH MONITORING: A NOVEL APPROACH TO REAL-TIME HEALTH ANOMALY DETECTION AND RISK STRATIFICATION THROUGH MULTI-SENSOR DATA ANALYSIS." Journal of Theoretical and Applied Information Technology 102, no. 6 (2024).
- Antony Pradeesh D, Subiramaniyam, N. P. "Enhanced Real-Time Analysis and Anomaly Detection in Smart Health Monitoring Systems through Integration of Deep Learning

Algorithm with IoT-Edge Computing." In 2024 International Conference on Computing and Data Science (ICCDS), pp. 1-6. IEEE, 2024.

- Pradeesh, D. Antony, Y. Syamala, P. Priya, Madhavi Sripathi, and Srilakshmi Kaza. "Advanced Interoperable Framework for Real-Time Predictive Analysis Leveraging Machine Learning and IoT in Smart Health Monitoring Systems." In 2023 International Conference on Electrical, Computer and Energy Technologies (ICECET), pp. 1-6. IEEE, 2023.
- Anandh, B. A., and D. Antony Pradeesh. "EC-MAC Protocol for Energy Harvesting Wireless Sensor Networks." In Proceedings of Fourth International Conference on Communication, Computing and Electronics Systems: ICCCES 2022, pp. 955-967. Singapore: Springer Nature Singapore, 2023.
- Pradeesh, D. Antony, and N. P. Subiramaniyam. "MC-LMAC PROTOCOL FOR ENERGY HARVESTING WIRELESS SENSOR NETWORKS" Interdisciplinary Research Innovations in Science and Humanities: 139.

Patent Publications

- A Method and System for ECG-Based Cardiac Disease Detection Using Machine Learning - 202541014052
- IoT-Enabled Automated Machine Learning System for Early Detection of Heart Diseases - 202341047938
- An Internet of Things and Machine Learning based COPD Patients' Health Monitoring System - 202341047939
- Detection and Indication of Spotting and Bleeding in Autistic Women during the Menstrual Cycle using a Wearable Device - 202341041355
- Enhancing Elderly Care with Machine Learning-Based Fall Detection Systems - 202341022421
- An Internet of Things (IoT) Based Indoor Air Quality Monitoring and Control System - 202241006541
- An IoT based Algae Growth Monitoring System - 202141061644
- Automatic Hand Sanitizer Dispenser with Contactless Temperature Measurement - 202041054792
- Registration of Design no.: 418671-001
- 6 Indian Patents are filed and in the publication process.

Personal Details

Date of Birth: 06/11/1988

Nationality: Indian

Marital Status: Married

Religion: Christian