LAVANYA B. KOPPAL

Assistant Professor | Department of Machine Learning (AI & ML), BMSCE

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PROFESSIONAL PROFILE

Engineering educator and researcher with experience in teaching computer science, coordinating academic activities, and conducting faculty/student workshops. Research interests include AI/ML, digital image processing, pattern recognition.

ACADEMIC & PROFESSIONAL EXPERIENCE

Assistant Professor | Department of Machine Learning (AI & ML), BMS College of Engineering (BMSCE)
Current position

Assistant Professor | Dayananda Sagar University, Bengaluru | Aug 2018–Ma2024

- Taught Compiler Design, System Software, Digital Image Processing, Automata Theory, Operating Systems, DBMS, and Computer Organization.
- Supported internal examination coordination, external examination duties, admissions, and workshops on IoT, project-based learning, and hackathon activities.

Lecturer | PES Polytechnic, Bengaluru | Aug 2017–Apr 2018

Lecturer | BIET, Davangere | Jul–Dec 2012

Graduate Engineering Trainee | Alcatel-Lucent (Nokia), Bengaluru | Jun 2016–Apr 2017 — Automation framework development and manual testing.

EDUCATION

Ph.D. in Computer Science & Engineering — Dayananda Sagar University	**Pursuing**
M.Tech. in Computer Network Engineering — B.I.T., Bengaluru	**75% | 2016**
B.E. in Information Science & Engineering — BIET, Davangere	**69.44% | 2012**

RESEARCH & PUBLICATIONS

- Ph.D. research: “Development and Validation of Expert System for Detection and Grading of Economically Important Foliar Diseases of Mango Using Multimodal Approach.”
- Research areas: Digital Image Processing, Pattern Recognition, Machine Learning, and AI-based plant disease analysis.
- Publications include conference papers on multimodal healthy/diseased fruit and vegetable identification, mango leaf disease identification, and a journal article on techniques for diseased-leaf identification.

CERTIFICATIONS, SKILLS & SERVICE

- NPTEL: Python for Data Science (2019)
- Teaching and academic coordination • Workshop facilitation • Automation testing
- Volunteer: Bhumi (education support for underprivileged children) and SayTrees (tree planting and maintenance).