Dr. Lakshmi Narayanan

Assistant Professor, Computer Science

lakshmi.narayanan@example.com • +91 90000 12312 • Chennai, India • Google Scholar • LinkedIn

Academic profile

Assistant Professor of Computer Science with a PhD in machine learning and 8 years of teaching and research experience. Taught 12 undergraduate and postgraduate courses, supervised 14 student projects and 2 PhD scholars, published 18 papers and secured two funded projects. Passed UGC NET and active in curriculum design and NAAC documentation.

Education

PhD, Computer Science and Engineering, Indian Institute of Technology Madras — 2014 – 2019
Chennai, India

M.E., Computer Science and Engineering, Anna University — 2012 – 2014
Chennai, India | 8.9 CGPA

B.E., Computer Science and Engineering, Anna University — 2008 – 2012
Chennai, India | 8.2 CGPA

Academic experience

Assistant Professor, Kestrel Institute of Technology — Jul 2021 – Present
Chennai, India

- Teach machine learning, data structures and database systems to 180 students a year with an average feedback score of 4.5 out of 5.
- Redesigned the machine learning course with hands-on labs and projects, raising the pass rate from 82% to 93%.
- Supervise 2 PhD scholars and 14 postgraduate and final-year projects, 5 of which led to conference papers.
- Serve as NAAC criterion coordinator for teaching and learning and prepared the data for the 2024 accreditation visit.

Postdoctoral Researcher, Indian Institute of Technology Madras — Aug 2019 – Jun 2021
Chennai, India

- Worked on interpretable deep learning for medical images, with 6 papers published and a dataset released for researchers.
- Guest-lectured to 60 master's students and co-supervised 4 dissertations.

Selected publications (18 total)

Interpretable attention models for chest X-ray classification, IEEE Journal of Biomedical and Health Informatics (example) — May 2023

A lightweight transformer for low-resource text classification, Proceedings of an international NLP conference (example) — Nov 2022

Benchmarking data augmentation for medical image segmentation, Pattern Recognition Letters (example) — Feb 2021

Funded projects

AI-assisted screening for tuberculosis in primary health centres, Principal Investigator, funded by a state science agency, Rs 18 lakh, 2023 to 2025

- Built and validated a screening model on 9,000 images with a clinician partner network.

Open learning platform for programming labs, Co-Investigator, institutional grant, Rs 6 lakh, 2022 to 2023

- Delivered an auto-graded lab portal used by 600 students.

Awards and eligibility

UGC NET (Assistant Professor eligibility), University Grants Commission — Dec 2018

Best Teacher Award, Department of CSE, Kestrel Institute of Technology — Apr 2024

Skills

Machine learning · Deep learning · Curriculum design · Outcome-based education · Research supervision · Grant writing · Python and PyTorch · Technical writing · NAAC and NBA documentation · Peer review