Faculty Profile

Dr. Priyadharshini S, M.Tech., Ph.D
Assistant Professor (OG)

ACADEMIC HIGHLIGHTS:

- Number of Journal Publications: 6
- H-Index: 2
- Citations: 17

PROFESSIONAL LINKS:

- Scopus author ID: 58264749500
- Scopus Link: https://www.scopus.com/authid/detail.uri?authorId=58264749500
- LinkedIn: https://www.linkedin.com/in/dr-priyadharshini-90868b169/
- Orchid ID: https://orcid.org/my-orcid?orcid=0000-0001-6689-6506
- Github: https://github.com/priyadharshini0805
- Google Scholar ID: H9P7A9UAAAAJ
- Google Scholar Link: https://scholar.google.com/citations?user=H9P7A9UAAAAJ&hl=en
- Anna University Faculty ID:
- AICTE Faculty ID: 1-32661686429

PROFESSIONAL BACKGROUND:

- Teaching Experience: 3 years (including role as a Project Associate in SASTRA Deemed to be University)
- Industrial Experience: NIL

AREA OF SPECIALIZATION

- Artificial Intelligence, Machine Learning & Deep Learning
- Generative AI and Large Language Models (LLMs)
- Explainable AI (XAI) and Natural Language Processing (NLP)
- Image Processing

RESEARCH INTEREST

- Robotics and Automation
- Medical Image Analysis and Neuroimaging
- Clinical Decision Support Systems
- Generative Models for Medical Imaging
- Agentic AI and Automation

WORKSHOPS ATTENDED (Last 3 years)

- TWO DAYS HYBRID WORKSHOP ON "AI applications in Neuroimaging: Unlocking new possibilities for Neurological care" on 23rd& 24th January, 2025

CONFERENCES/SEMINARS (Last 3 Years):

- 'Understanding Cancer: Current and Emerging Concepts,' organized by the Department of Life Sciences at the School of Natural Sciences, Shiv Nadar Institution of Eminence, scheduled for March 24th to 29th, 2025.

LIST OF PUBLICATIONS:

- Priyadharshini, S., Ramkumar, K., Venkatesh, S., Narasimhan, K., & Adalarasu, K. (2023). An Overview of Interpretability Techniques for Explainable Artificial Intelligence (XAI) in Deep Learning-based Medical Image Analysis. In Proceedings of the 2023 9th International Conference on Advanced Computing and Communication Systems (ICACCS), Vol. 1, pp. 175–182. IEEE.

- Priyadharshini, S., Ramkumar, K., Vairavasundaram, S., Narasimhan, K., Venkatesh, S., Amirtharajan, R., & Madhavasarma, P. (2024). A Comprehensive Framework for Parkinson's Disease Diagnosis Using Explainable Artificial Intelligence Empowered Machine Learning Techniques. Alexandria Engineering Journal, 107, 568–582.

- Priyadharshini, S., Ramkumar, K., Vairavasundaram, S., Narasimhan, K., Venkatesh, S., Madhavasarma, P., & Adalarasu, K. (2024). Bio-inspired Feature Selection for Early Diagnosis of Parkinson's Disease Through Optimization of Deep 3D Nested Learning. Scientific Reports, 14, 1–17.

- Priyadharshini, S., Narasimhan, K., Ramkumar, K., & Venkatesh, S. (2025). Voxel-based Analysis and Advanced Techniques for MRI Scan Classification in Early Diagnosis of Parkinson's Disease. In S. Dey, V. Kumar, D.K. Pratihar, S. Islam, & V.P. Singh (Eds.), Advancing Healthcare through Decision Intelligence (pp. 175–194). Academic Press, Elsevier.

COURSE COMPLETED:

- Python Fundamentals for Beginners – Great Learning (Feb 2022)
- Introduction to TensorFlow for Deep Learning – Udacity (Feb 2022)
- Machine Learning Course – CloudlyML (Dec 2024)
- GenAI-Powered Data Analytics Job Simulation – Tata Group, Forage (Jun 2025)
- Complete Generative AI Course with LangChain and Hugging Face – Udemy (April 2025)
- Complete Data Science, Machine Learning, Deep Learning, and NLP Bootcamp – Udemy (Jan 2025)

ONGOING COURSES:

- Complete MLOps Bootcamp – with 10+ End-to-End ML Projects
- Beginner to Advanced MLOps on GCP – CI/CD, Kubernetes, Jenkins