Durjoy Mistry 2

▶ Researcher ▶ Teacher ▶ Youtuber

A passionate and driven researcher, expert in machine learning, deep learning, federated learning, NLP, generative AI, and quantum machine learning, with strong coding skills in Python, and other tools, eager to leverage my passion for innovation to deliver meaningful value to the world of computer science.



Check Update 2



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durjoy@uap-bd.edu



scholar/durjoyms



github.com/heydurjoy

Research Nerd | Cited by: 66+ | IELTS: 7.5 | Love to code | ML/DL Expert | Fun to work with ©



Research and Publications 🗹 | Cited by: 66+ | Q1: 7+ | Total Publications: 12+

[1] - First Publication

- Vision Based ML

- Q1 | IF: 3.4

Mistry, D., Mridha, M. F., Safran, M., Alfarhood, S., Saha, A. K., & Che, D. (2023). Privacy-preserving on-screen activity tracking and classification in e-learning using federated learning. **IEEE Access**, 11, 79315-79329. ♂

[2] - High IF Journal

- Vision Based FL

- Q1 | IF: 8.0

Diba, B. S., Plabon, J. D., Rahman, M. M., Mistry, D., Saha, A. K., & Mridha, M. F. (2024). Explainable federated learning for privacy-preserving Bangla sign language detection. Engineering Applications of Artificial Intelligence, 134, 108657. 🗗

[3] - Prestigious Conf.

- Vision and Patterns

- 29th Int. Conf., HCI

Mistry, D., Diba, B. S., Dutta Plabon, J., Ahmed, S. U., & Mridha, M. F. (2025, June). Personalized Pomodoro Productivity Tracking with Privacy-Preserving Machine Learning in Human-Computer Interaction. In the International Conference on **Human-Computer Interaction** (pp. 416-427). ☐



🕽 Work experience 🖸

July 2023 - Present Dhaka, Bangladesh

Lecturer, Department of CSE ☑

▶ University of Asia Pacific

- Conducted over 10 different courses over the years.
- Serving as the convener of the Software and Hardware Club, CSE
- Supervised numerous students' first research publications. ☑

Jan 2022 - Present Dhaka, Bangladesh Lead Researcher, Department of Data Science and Federated Learning ☐ **AMIR LAB**

- Lead research in Federated Learning, and Generative AI
- Supervising junior researchers and guiding publications
- Collaborating on international projects and grants



♦ Master of Science 2025

Master in Computer Science and Engineering

▶ University of Asia Pacific

- CGPA: 4.00 | Batch Rank #01
- Thesis: "Secure Federated Learning for Sign Language Detection: Addressing Model Inversion Vulnerabilities with Differential Privacy"

→ Bachelor of Science B.Sc. in Computer Science and Engineering

2021

▶ University of Asia Pacific

- CGPA: 3.88 | Batch Rank #02
- Thesis: "Hate Speech Detection in Social Media Comments using BERT"

Vision | NLP | GenAi Writing **Idea ormulation Data Analysis** Illustrations **Team Collaboration** Time Management Python and Libraries

🖸 Organisational / Communication skills 🗹

Always on time Team Man Attention to detail Perseverance Organized Resilient

[1] Dr. Aloke Kumar Saha

Professor, Department of CSE **Thesis Supervisor**

> University of Asia Pacific. Email: aloke@uap-bd.edu

Dr. Firoz Mridha [2]

Professor, Department of CSE **Research Mentor**

American International University - Bangladesh (AIUB)

Email: firoz.mridha@aiub.edu

Ranked in World's Top 2% Scientists, 5000+ Citations