Durjoy Mistry ⬈

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.

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

[1] **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] **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] **Vision and Patterns** **29th Conference	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 • Guided numerous students in developing their first research papers through comprehensive mentorship.
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

🎓 Education ⬈

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 2021	**B.Sc. in Computer Science and Engineering**
	⚲ University of Asia Pacific

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

✪ Research / Coding Skills ⬈

Writing
▬ ▬ ▬ ▬ ▬

Vision | NLP | GenAi
▬ ▬ ▬ ▬ ▬

Analysis
▬ ▬ ▬ ▬ ▬

Idea formulation
▬ ▬ ▬ ▬ ▬

Illustrations
▬ ▬ ▬ ▬ ▬

Time Management
▬ ▬ ▬ ▬ ▬

Python and Libraries
▬ ▬ ▬ ▬ ▬

Team Collaboration
▬ ▬ ▬ ▬ ▬

✪ Organisational / Communication skills ⬈

`Always on time` `Team Man` `Attention to detail` `Perseverance` `Organized` `Resilient`

✪ References ⬈

[1]
Thesis Supervisor

Dr. Aloke Kumar Saha
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University of Asia Pacific.
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[2]
Research Mentor

Dr. Firoz Mridha
Professor, Department of CSE
American International University - Bangladesh (AIUB)
Email: firoz.mridha@aiub.edu
Ranked in World's Top 2% Scientists, 5000+ Citations