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.

Check Update ⤢

📞 +8801719 588 272	✉ 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

🎓 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
▬ ▬ ▬ ▬ ▬

Data Analysis
▬ ▬ ▬ ▬ ▬

Idea ormulation
▬ ▬ ▬ ▬ ▬

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
Professor, Department of CSE
University of Asia Pacific.
Email: aloke@uap-bd.edu

[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