

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](#) 



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[scholar/durjoyms](https://scholar.google.com/citations?user=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 **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"

⚙ Research / Coding Skills ↗

Writing	Vision NLP GenAi	Data 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. Alope 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