

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/durjoym](https://scholar.google.com/citations?user=durjoym)



github.com/heydurjoy

Research Nerd

Cited by: 66+

IELTS: TBD

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"

▷University of Asia Pacific

- Thesis: "Hate Speech Detection in Social Media Comments using BERT"

🔧 Research / Coding Skills

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📌 Organisational / Communication skills

Always on time Team Man Attention to detail Perseverance Organized Resilient

Team Man Attention to detail Perseverance Organized Resilient

Attention to detail Perseverance Organized Resilient

Perseverance Organized Resilient

Organized Resilient

Resilient

References

[1] **Dr. Alope Kumar Saha**

Thesis Supervisor Professor, Department of CSE

Dr. Alope Kumar Saha

Professor, Department of CSE

University of Asia Pacific.

Email: aloke@uap-bd.edu

[2] **Dr. Firoz Mridha**

Research Mentor Professor, Department of CSE

Dr. Firoz Mridha

Professor, Department of CSE

American International University - Bangladesh (AIUB)

Email: firoz.mridha@aiub.edu

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