Durjoy Mistry

▸Assistant Professor & Researcher | Computer Science & Engineering, UAP

A passionate researcher specializing in Federated Learning, Privacy-Preserving Machine Learning, and Generative AI. **With 17+ publications (9 in Q1 journals) and a 4.00 Master's CGPA,** I am dedicated to developing secure, innovative solutions in the fields of Computer Vision and NLP.



Short Version

+8801719 588 272 | durjoy@uap-bd.edu | scholar/**Durjoy Mistry** | github.com/**heydurjoy**

Research Nerd **Cited by: 206 +** **Q1: 9+** **Love to code** **ML/DL Expert** **Fun to work with ☺**

206

Education

✦ Master of Science
2023 - 2025

Master in Computer Science and Engineering
▹ University of Asia Pacific
- **CGPA: 4.00 (Out of 4.00) | Batch Rank #01**
- Thesis: "Privacy–Utility Trade-off in Secure FL with Model Inversion for Sign Language Detection"

✦ Bachelor of Science
2017 - 2021

B.Sc. in Computer Science and Engineering
▹ University of Asia Pacific
- **CGPA: 3.88 (Out of 4.00) | Batch Rank #02**
- Thesis: "Hate Speech Detection in Social Media Comments using BERT"

✦ SSC/HSC
2013-2015

Science
▹Barisal Education Board
- SSC , 2013 — GPA 5.00 (Out of 5.00)
- HSC, 2015 — GPA 5.00 (Out of 5.00)

Work experience

July 2026 - Present
July 2023 - July 2026

Assistant Professor, Department of CSE
↳ **Lecturer, Department of CSE**
▹ University of Asia Pacific
- Teaching advanced courses including Machine Learning and AI
- **Supervised numerous students' first research publications.**
- Leading the AI Research Lab initiatives
- **Former Convener: Software and Hardware Club, Dept. of CSE**
- Courses Conducted:
  - CSE 102: Introduction to Computer Programming Lab
  - CSE 104: Structured Programming Lab
  - CSE 108: Competitive Programming Lab
  - CSE 304: Data Communication Lab

- CSE 306: System Analysis & Design Lab
- CSE 302: Object Oriented Programming II Lab: Visual and Web Design
- CSE 301: Object Oriented Programming II: Visual and Web Design

Jun 2023- 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

Jan 2021 - 2022
Dhaka, Bangladesh

Full-stack Web Developer
▹ dotRedDigital

- Full-stack web development

Research - Coding Skills

Writing | **Vision | NLP | GenAi** | **Data Analysis** | **Idea formulation**

Illustrations | **Time Management** | **Python and Libraries** | **Team Collaboration**

Programming

- Python
- TensorFlow
- PyTorch
- Pandas
- Java
- C/C++
- JavaScript
- HTML/CSS
- Django(Web) - Expert

Machine Learning

- Deep Learning
- Federated Learning
- Computer Vision
- NLP
- Quantum Machine Learning
- Generative AI
- Blockchain
- Bioinformatics

Useful Extras

- Graphic Design
- Video Editing
- Video Hosting
- Presenter
- Youtuber
- Fast-paced

Agents Expertise

- Cursor
- Claude Code
- Codex
- Windsurf
- Antigravity

Major Project: Developed the official UAP CSE departmental website from scratch (90% Code contribution), implementing a high-performance custom architecture to optimize user experience.

Awards/Certifications

Vice Chancellor's Award (GPA: 3.90+)

- Fall 2018, University of Asia Pacific
- Fall 2019, University of Asia Pacific
- Spring 2020, University of Asia Pacific
- Fall 2020, University of Asia Pacific
- Spring 2021, University of Asia Pacific
- 2021, University of Asia Pacific

Dean's Award (GPA: 3.75+)

- Fall 2017, University of Asia Pacific
- Spring 2019, University of Asia Pacific

Contest Winner

- 2020 – Inside CSE, Film And Photography Club, UAP (**Watch ▶**)

Other Recognitions

- Secured Bronze Award – International Blockchain Olympiad, for project Trusted Traceability Service
- Emerging Leader 2024 Award.

Organisational / Communication skills

Always on time **Team Man** **Attention to detail** **Perseverance** **Negotiator** **Agile**

IELTS (2025) | Overall: 7.0

Listening: 7.0 **Reading: 6.5** **Writing: 6.5** **Speaking: 7.5** **CEFR Level: 1**

Research and Publications Highlights | Cited by: 206+ | Q1: 9+ | Total: 17+

Total Publication: 17
Total Q1: 9
Total First Author or Equal Contribution: 7
Top 10 Publications

SL	Year	Published at	Contribution	Research Article	DL
1	2023	Q1 Journal	First Author	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.	Link
2	2023	Q1 Journal	First Author	Mistry D, Hossain M, Diba BS, Plabon JD, Shams MA, Rahman MT, et al. A multisectoral study of Mpox epidemiology, resistance surveillance, and policy gaps: toward a One Health framework. Clin Rev Allergy Immunol. 2026;68(1):108.	Scholar
3	2024	Q1 Journal	Corr. Author	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.	Link
4	2024	Q1 Journal	First Author	Mistry, D., Plabon, J. D., Diba, B. S., Mukta, S., & Mridha, M. F. (2024). Federated learning-based architecture for personalized next emoji prediction for social media comments. IEEE Access.	Link
5	2025	Q1 Journal	Eq. First	Diba, B. S., Plabon, J. D., Mowla, T. J., Nahar, N., Mistry, D., Sarker, S., ... & Shin, J. (2025). Open problems and challenges in federated learning for IoT: A comprehensive review and strategic guide. Computers and Electrical Engineering, 126, 110515.	Link
6	2025	Q1 Journal	Author	Islam, M. S., Islam, M. R., & Mistry, D. (2025). Deep learning for predicting essential proteins using	Link

				topological features and gene ontology. Neural Computing and Applications, 1-16.	
7	2025	**Q1 Journal**	**Eq. First**	Diba, B. S., Plabon, J. D., Tasnim, N., Hossain, M., Mistry, D., Sarker, S., ... & Shin, J. (2025). From Centralization to Decentralization: Blockchain's Role in Transforming Social Media Platforms. IEEE Access.	**Link**
8	2025	**Q1 Journal**	**Author**	Rahman, N. N., Mahi, A. B. S., Mistry, D., Al Masud, S. M. R., Saha, A. K., Rahman, R., & Islam, M. R. (2025). FallVision: A benchmark video dataset for fall detection. Data in Brief, 59, 111440.	**Link**
9	2026	**Q1 Journal**	**Author**	Aurnob AR, Tanim SA, Shrestha TE, Mridha MF, Mistry D. FedFusionNet: Advancing oral cancer recurrence prediction through federated fusion modeling. Inf Fusion. 2026;132:104205. doi:10.1016/j.inffus.2026.104205	**Link**
10	2025	**Prestigious Conference**	**First Author**	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). Cham: Springer Nature Switzerland.	**Scholar**

References

[1]
Thesis Supervisor

Prof. Dr. Aloke Kumar Saha
Professor, Department of CSE
University of Asia Pacific.
Email: aloke@uap-bd.edu

[2]
Research Mentor

Prof. Dr. Firoz Mridha
Professor, Department of CSE
American International University - Bangladesh (AIUB)
Email: firoz.mridha@aiub.edu
Ranked in World's Top 2% Scientists, 13000+ Citations

Durjoy's Portfolio