

# Durjoy Mistry [↗](#)

► Researcher ► Teacher ► Youtuber

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](#) [↗](#)



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[scholar/Durjoy Mistry](https://scholar.google.com/citations?user=DurjoyMistry)



[github.com/heydurjoy](https://github.com/heydurjoy)

Research Nerd

Cited by: 171+

Q1: 9+

Love to code

ML/DL Expert

Fun to work with 😊

## [📁](#) Work experience [↗](#)

July 2023 - Present

Dhaka, Bangladesh

**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
- **Convenner: 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

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

Jan 2021 - 2022

Dhaka, Bangladesh

**Full-stack Web Developer**

► dotRedDigital

- Full-stack web development

## [🎓](#) 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: "Secure Federated Learning for Sign Language Detection: Addressing Model Inversion Vulnerabilities with Differential Privacy"

◆ **Bachelor of Science B.Sc. in Computer Science and Engineering**

2017 - 2021

▷ 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)

## 🔧 Research - Coding Skills [↗](#)

Writing



Vision | NLP | GenAi



Data Analysis



Idea ormulation



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

**Major Project:** Developed the official UAP CSE departmental website from scratch, 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: 171+ | 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. <i>IEEE Access</i> , 11, 79315-79329.	<a href="#">Link</a>
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. <i>Clin Rev Allergy Immunol</i> . 2026;68(1):108.	<a href="#">Scholar</a>
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. <i>Engineering Applications of Artificial Intelligence</i> , 134, 108657.	<a href="#">Link</a>
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. <i>IEEE Access</i> .	<a href="#">Link</a>
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. <i>Computers and Electrical Engineering</i> , 126, 110515.	<a href="#">Link</a>

6	2025	Q1 Journal	Author	Islam, M. S., Islam, M. R., & Mistry, D. (2025). Deep learning for predicting essential proteins using topological features and gene ontology. <i>Neural Computing and Applications</i> , 1-16.	<a href="#">Link</a>
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. <i>IEEE Access</i> .	<a href="#">Link</a>
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. <i>Data in Brief</i> , 59, 111440.	<a href="#">Link</a>
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. <i>Inf Fusion</i> . 2026;132:104205. doi:10.1016/j.inffus.2026.104205	<a href="#">Link</a>
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 <i>International Conference on Human-Computer Interaction</i> (pp. 416-427). Cham: Springer Nature Switzerland.	<a href="#">Scholar</a>

## References


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[1]  
Thesis Supervisor

**Prof. Dr. Alope Kumar Saha** 

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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, 7500+ Citations



Durjoy's Portfolio 