MD. MEHEDI HASAN

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Education

Dhaka International University *Sep 2023 – Dec 2027*
Bachelor of Science in Computer Science and Engineering

BAF Shaheen College Jashore *Sep 2020 – Dec 2022*
Higher Secondary Certificate

Research Interest

My research interests lie at the intersection of Artificial Intelligence and Data Science, focusing on machine learning for socio-economic analysis, predictive modeling, and sustainable smart systems. I am particularly interested in developing interpretable AI frameworks that combine IoT data, behavioral analytics, and deep learning to address real-world challenges in urban development and social impact.

Projects

MeteorShield – Team Polaris

- Created a planetary defense platform using NASA Near-Earth Object (NEO) data.
- Developed a real-time 3D visualization tool (Orrery Web App) for tracking NEO trajectories.
- Aimed to make complex space data accessible for education and disaster awareness.

Quick Witt

- Built with Java.
- For Teachers and Students.
- Quiz Application.

AgroHub – IoT & AI-Powered Smart Agriculture Platform

- Developed an intelligent farm management system using IoT and ML.
- Enabled real-time monitoring and decision-making support for farmers.

SciGenie

- One-click EDA.
- One-click AutoML (Random Forest, XGBoost, Auto-Sklearn).

Real-Time AQI Monitoring with Python WAQI API.

- Dynamic city-input via CLI.
- AQI interpretation using conditional logic.
- Scalable for automation or dashboard integration using IoT and ML.

Savefood

- AI-Powered Food Tracking - Automatically tracks and updates the expiry status of stored food.
- Spoilage Prediction - Predicts when food is likely to go bad using trained ML models, alerting you beforehand.

- Waste Analytics Dashboard - Visualizes how much food (and money) you've saved over time.
- Personalized Suggestions - Offers recipe ideas based on your stored ingredients to minimize food waste.

SafeRoads

- Urban planners in designing safer roads.
- Authorities in targeting high-risk areas.
- Navigation systems in delivering risk-aware routing

Achievements & Participation

NASA International Space Apps Challenge 2025 – Champion – Barisal Division, Team Polaris

Eastern Bank PLC. Technovation'25 National Hackathon – St. Joseph Higher Secondary School

National Data Analytics Competition (NDAC) 2025 - Daffodil International University

Professional Membership

IEEE - Student Member (*valid through Dec 2026*)
IEEE Computer Society - Member (*valid through Dec 2026*)

Community Involvement

DIU CSE Speakers Club - DCSC May 2025 – Present
General Secretary

DIU Career Development Club - DIU CDC Aug 2025 – Present
Head Research and Training Wing

DIU Computer Programming Club - DIU CPC Mar 2025 – Present
Event Coordinator

BASIS Students' Forum DIU Chapter Sep 2024 – Oct 2025
Executive Member

DIU Computer Programming Club - DIU CPC Aug 2024 – Dec 2024
Executive Member

Technical Skills

Languages: Python, C, Java, SQL (MYSQL Postgresql).
Ml-Frameworks: Scikit-learn, TensorFlow, PyTorch, Auto-sklearn.
Data Tools: Pandas, NumPy, Matplotlib, Seaborn.
Dev-Tools: Git, GitHub, VS Code, Google Colab, Kaggle NoteBook.
Productivity: MS Office 365, Google SpreadSheet, Google Docs, Google Slides, Canva.

Publications

1. **Hasan, M. M.**, Rakib, R., Molla, M. A., Borhan, R., Based, M. A.: **A Socio-Economic Machine Learning Framework for Predicting Programmer Retention.** Taylor and Francis. In: *Proceedings of the 3rd International Conference on Big Data, IoT and Machine Learning (BIM 2025)*. [Accepted – Waiting for Publication]

2. **Hasan, M. M.**, Mahin, A. A., Chakraborty, S., Afrose, M.,Mia, M. A., Based, M. A.: **A Socio-**

Economic Machine Learning Framework for Predicting Programmer Retention. Taylor and Francis. In: *Proceedings of the 3rd International Conference on Big Data, IoT and Machine Learning (BIM 2025)*. [Accepted – Waiting for Publication]

3. Molla, M. A., Rakib, R., **Hasan, M. M.**, Rion, A. M., Based, M. A.: **Machine Learning based Regression and Classification of Earthquake Magnitude using USGS Seismic Records.** In: *Proceedings of the 2025 International Conference on Intelligent Data Analysis and Applications (IDAA 2025)*. [Under Review]

4. Mahin, A. A., **Hasan, M. M.**, Rakib, R., Molla, M. A., Mia, M. A., Based, M. A.: **A Modular Framework for Continual Reinforcement Learning in Dynamic Robotic Environments.** In: *Proceedings of the 2025 International Conference on Intelligent Data Analysis and Applications (IDAA 2025)*. [Under Review]