

MD. MEHEDI HASAN

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RESEARCH INTERESTS

Behavioral machine learning, social engineering detection, interpretable AI, socio-economic modeling, continual learning, and geospatial risk prediction. Focused on building AI systems that are explainable, fair, and grounded in real-world human behavior.

EDUCATION

Dhaka International University

Sep 2023 – Dec 2027

Bachelor of Science in Computer Science and Engineering

CGPA: 3.75 / 4.00

BAF Shaheen College Jashore

Sep 2020 – Dec 2022

Higher Secondary Certificate

GPA: 4.75 / 5.00

RESEARCH PROJECTS

SafeRoads – Geospatial Risk Prediction

- Built a system identifying high-risk road segments using traffic, weather, and accident data.
- Supports urban planning and risk-aware navigation.
- *Methods: Geospatial ML, XGBoost, Spatial Clustering*

MeteorShield – NASA Space Apps Challenge 2025

- Developed a planetary defense visualization platform using NASA NEO datasets.
- **Champion (Barisal Division), Global Nominee, Honorable Mention**
- Focused on data storytelling and public awareness.

SaveFood – AI for Food Waste Reduction

- Trained time-series ML models to predict food spoilage from IoT sensor data (F1-score: 0.89).

SciGenie – One-click EDA & AutoML

- Built an automated EDA and AutoML pipeline for rapid ML experimentation.

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.** *Proceedings of BIM 2025.* [Accepted]
2. **Hasan, M. M.**, Mahin, A. A., Chakraborty, S., Afrose, M., Mia, M. A., Based, M. A. **Behavioral and Demographic Feature Fusion for Developer Attrition Modeling.** *Proceedings of BIM 2025.* [Accepted]
3. **Hasan, M. M.**, Pallob, M. M. I., Based, M. A. **Digital Transformation for Sustainable Universities: The Strategic Role of Management Information Systems.** *Unpublished manuscript*, 2026.

4. Molla, M. A., **Hasan, M. M.**, Rakib, R., Borhan, R., Based, M. A. **Explainable Hybrid ML for Rapid Earthquake Event Characterization Using USGS Seismic Metadata**. [Under Review]
5. Mahin, A. A., **Hasan, M. M.**, Mia, M. A., Based, M. A. **EWC-RL++: A Modular and Adaptive Continual Reinforcement Learning Framework for Automation Systems in Structured but Evolving Environments**. [Under Review]
6. Molla, M. A., **Hasan, M. M.**, Rakib, R., Borhan, R., Based, M. A. **Urban–Rural Inequality in Tech Career Intention: A Machine Learning Perspective**. [Under Review]
7. **Hasan, M. M.**, Molla, M. A., Rakib, R., Borhan, R., Based, M. A. **Socio-Economic Determinants of Programming Skill Development in Undergraduate CS Students**. [Under Review]
8. Rakib, R., Molla, M. A., **Hasan, M. M.**, Borhan, R., Based, M. A. **Explainable AI for Understanding Motivation in Choosing Computer Science Careers**. [Under Review]
9. Afrose, M., Mahin, A. A., **Hasan, M. M.**, Mia, M. A., Based, M. A. **Fairness-Aware HIV Risk Prediction for Key Populations in Bangladesh: Bridging Behavioral Surveillance, Explainable AI, and Socio-Technical Accountability**. [Under Review]

ACHIEVEMENTS

NASA International Space Apps Challenge 2025 — Champion (Barisal), Global Nominee, Honorable Mention — [Team Polaris](#)

National Data Analytics Competition (NDAC) 2025 — Daffodil International University
Eastern Bank PLC Technovation'25 National Hackathon — Participant

PROFESSIONAL AFFILIATIONS

IEEE — Student Member (Valid through Dec 2026)

IEEE Computer Society — Student Member (Valid through Dec 2026)

LEADERSHIP & COMMUNITY

DIU CSE Speakers Club — General Secretary	<i>May 2025 – Present</i>
DIU Career Development Club — Head, Research and Training Wing	<i>Aug 2025 – Present</i>
BASIS Students' Forum (DIU Chapter) — Executive Member	<i>Sep 2024 – Oct 2025</i>

TECHNICAL SKILLS

Languages: Python, C, Java, SQL

ML Frameworks: Scikit-learn, TensorFlow, PyTorch, Auto-sklearn

Automation & Bots: Workflow automation, intelligent bots, web automation (Selenium, Playwright), API automation, task scheduling, RPA concepts, logging & exception handling

Data Tools: Pandas, NumPy, Matplotlib, Seaborn

Dev Tools: Git, GitHub, VS Code, Google Colab, Kaggle

Specialized: Interpretable AI (SHAP), geospatial analysis, time-series forecasting, AutoML