

# MD. MEHEDI HASAN

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## RESEARCH INTERESTS

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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

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### 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

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### 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

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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M. A. Digital Transformation for Sustainable Universities: The Strategic Role of Management Information Systems.** *Unpublished manuscript, 2026.*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

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**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

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**IEEE** — Student Member (Valid through Dec 2026)

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

## LEADERSHIP & COMMUNITY

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**DIU CSE Speakers Club** — General Secretary *May 2025 – Present*

**DIU Career Development Club** — Head, Research and Training Wing *Aug 2025 – Present*

**BASIS Students' Forum (DIU Chapter)** — Executive Member *Sep 2024 – Oct 2025*

## TECHNICAL SKILLS

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**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