MARJANAH AFROSE

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EDUCATION

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

Feni Government Technical School College   *Sep 2020 – Dec 2022*
Higher Secondary Certificate

EXPERIENCE

Graphics Designer   *June 2021 - Mar 2022*
Bornomala Computer Center

Salesman   *Ramadan- 2022*
RISE (Clothing Brand

RESEARCH INTEREST

My research interests lie at the intersection of Artificial Intelligence and Data Science, focusing on machine learning for 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.

ACHIEVEMENTS & PARTICIPATION

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

NASA International Space Apps Challenge 2024 – Participant – Universal Event, Blue Wave

TRAINING

Advanced Graphic Course with Freelancing   2022
Conducted by DoICT, supported by JICA

Graphic Design, NTVQF LEVEL-2   2021
Bangladesh Technical Education Board

Community Involvement

DIU CSE Speakers Club - DCSC   May 2025 – Present
Media and Publication Secretary

DIU Computer Programming Club - DIU CPC   Mar 2025 – Present
Public Relationship Manager

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

DIU CSE Speakers Club - DCSC   Aug 2024 – April 2025
Director of Visual Arts

U-TURN (Feni Distric)   March 2022 – February 2023
Executive Member

U-TURN (Feni Distric)   March 2023 – February 2024
Assistant General Secretary

Technical Skills

Languages: Python, C, Java, SQL (MYSQL Postgresql).
Data Tools: Pandas, NumPy.
Dev-Tools: Git, GitHub, VS Code, Google Colab, Kaggle NoteBook.
Productivity: MS Office 365, Google SpreadSheet, Google Docs, Google Slides, Canva, Adobe (Photoshop, Illustrator).

Publications

1. 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]