

Md. Mahafujer Rahman

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Summary —

A highly motivated Computer Science (Graduated) student specializing in Machine Learning and Data Science. My research focuses on leveraging Deep Learning and Computer Vision for advancements in Healthcare AI, including medical image analysis for early disease detection and genomic data analysis. I am passionate about utilizing AI for social good and am eager to apply my skills to challenging research projects.

Skills

AI & ML Kaggle, LLMs, TensorFlow, Multimodal AI
Cloud & API Firebase, Postman, Google Play Console
Programming Python, C++, PHP

Development Application with Flutter
Version Control Git, GitHub, GitLab
Human Languages Bengali (Native), English (Fluent)

Experience

Carnegie Mellon University - CMU (Pennsylvania, US — Remote)

October 2025 – Present

Research Intern

– at Xu Lab

DeepScope Research Lab at IUBAT

February 2026 – Present

Research Assistant

Plexus Cloud (Banani, Dhaka, Bangladesh — Onsite)

June 2025 – Present

Software Engineer - Flutter

- Create and maintain internal Flutter apps.
- Deliver smooth UI, performance, and stability.

Spark Tech (Banasree, Rampura, Dhaka — Onsite)

August 2024 – May 2025

Software Engineer - Flutter

- Implemented computer vision algorithms for robotic product sorting and automated conveyor control.
- Designed and programmed microcontroller-based logic for autonomous robotic motion and industrial tasks.

Education

IUBAT - International University of Business Agriculture and Technology

January 2020 - January 2024

Bachelor of Computer Science and Engineering

Result: 3.07/4.00

Key Projects

- **DartQuest:** A Flutter-based mobile app for learning the Dart language via interactive quizzes.
- **EDC User App:** An internal dashboard app for secure database management and visualization.
- **HRM App:** An office management application for tracking attendance and managing leave requests.
- **BK Gas (User & Admin):** A complete e-commerce platform with separate Flutter apps for customers and administrators.

Research Publications

- **Generative Adversarial Networks for Designing Novel Nanofunctional Materials with Tailored Microstructures** (*Ongoing project.*)
- **A Hybrid Deep Learning Model for Classifying Myocardial Infarction Complications Through ECG Images with XAI.** *Intl. Conf. on Biomedical Engineering, Computer and Information Technology for Health (BECITHCON)*

Extracurricular Activities

- **Campus Director** – IUBAT Hult Prize, 2022-2023
- **General Secretary** – Volumeter For Bangladesh - Rangpur, 2022-2023
- **Best Contributor** – Moshal - Youth For The World 2021

References

- **Dr. Tawfikur Rahman**
Department of Electrical & Electronic Engineering,
IUBAT - International University of Business Agriculture and Technology.
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