Md Monowarul Islam

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PROFILE STATEMENT

Final semester Computer Science student with hands-on experience in AI, Web Development, and Robotics. Skilled in Python & C++, and modern frameworks and libraries, with strong problem-solving experience having solved over 350 problems in Codeforces and LeetCode. Seeking to contribute as a software engineer in a dynamic environment.

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, C, JavaScript, PHP
- **Frameworks & Libraries:** Flask, NumPy, Pandas, OpenCV, TensorFlow, Scikit-Learn
- **Web Development:** HTML, CSS
- **Databases:** MySQL, SQLite
- **Other Expertise:** Git, LaTeX, Arduino

PROJECTS

Blood Donation Services | *HTML, CSS, PHP, MySql* **Jul '23**

- Designed and developed a website where users can register and choose to become blood donors, request for blood, and respond to requests.
- Implemented access controls like, registered donors could view and respond to donation requests, while admins could oversee the proceedings and act upon user report through an admin interface.

DSE Stock Closing Price Prediction | *Python, NumPy, Pandas, Matplotlib, Scikit-Learn* **May '24**

- Built and evaluated ML models with algorithms like LSTM, CNN, SVR, RFR, and LR using Dhaka Stock Exchange Dataset.
- Delivered a comparative analysis on the best suited ML model, for financial forecasting.

Exam Hall Monitoring System | *Python, C++, Arduino, OpenCV, YOLOv3, CNN* **Dec '24**

- Built a real time video recognition system for an exam hall monitoring robot with ESP32-s3 camera module.
- The recognition system built with YOLOv3 and OpenCV, could detect violations of hall conducts and alert authorities with visual evidence of misconduct.

Blood Aid | *HTML, CSS, Python, Flask, SQLite* **May '25**

- Modernized the legacy codebase of Blood Donation System using Python (Flask) and improved maintainability.
- Enhanced the information security using Bcrypt encryption for user data.

Anomaly Detection in Network Traffic | *Python, Pandas, Scikit-Learn, XGBoost, CatBoost, TensorFlow* **May '25**

- Developed ensemble and deep learning models using the BCCC-CIC-IDS-2017 dataset.
- Conducted comparative analysis between ensemble learning models (Random Forest Classifier, XGBoost Classifier, CatBoost Classifier) and deep learning models (Long Short Term Memory, Multi Layer Perceptron).

EDUCATION

Brac University **Jun '21 – Present**
Bachelor of Science in Computer Science *CGPA 3.44*

Rajuk Uttara Model College **Jul '18 – Dec '20**
Higher Secondary Certificate *GPA 5.00*

EXPERIENCE & ACHIEVEMENTS

- Solved **250+ problems** on Codeforces and **100+ problems** on LeetCode.
- Secured 10th position with Team Deathwish in **BRACU Intra University Junior Contest**, 2022.
- Participated in ACM ICPC Regional Preliminary in 2021 and 2023.
- Gained experience in task division, version control, and peer code reviews while working in groups on academic projects.

INTERESTS & HOBBIES

- Exploring advancements in graph theories and graph algorithms.
- Problem solving and participating in programming contests.
- Playing video games and watching movies.