









# 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.

## 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 code-base 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 3.46

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

## 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, L<sup>A</sup>T<sub>E</sub>X, Arduino

## EXPERIENCE & ACHIEVEMENTS

- Solved **250+ problems** on Codeforces and **150+ 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

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