

# MD MONOWARUL ISLAM

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## PROFILE STATEMENT

I am a final year Computer Science student. Passionate in problem solving, AI, and web development. I have hands-on experience in working with machine learning models, computer vision, and robotics. My goal is to leverage my programming skills and knowledge of core concepts in a dynamic environment where I can grow and contribute in solving real-world problems.

## TECHNICAL SKILLS

- **Programming Languages:** Python, C, C++
- **Python Libraries:** NumPy, Matplotlib, SciPy, Pandas, OpenCV
- **Web Development:** HTML, CSS, PHP, Flask
- **Databases:** MySQL, SQLite
- **Other Expertise:** LaTeX, Microsoft Office, Google Workspace

## EDUCATION

### Brac University

Bachelor of Science in Computer Science

Jun '21 – Present

CGPA 3.44

### Rajuk Uttara Model College

Higher Secondary Certificate

2018 – 2020

GPA 5.00

## EXPERIENCE & ACHIEVEMENTS

- Solved over **250 problems** on Codeforces.
- Secured 10th postion in **BRACU Intra University Junior Contest**.
- Participated in 2021 and 2023 ACM ICPC Regional Preliminary.

## PROJECTS

### Blood Donation Services | HTML, CSS, PHP, MySql

Jul '23

- Developed a website, where users can register and choose to become blood donors and anyone can post their need for blood and registered donors will be able to see the requests and respond to them.

### DSE Stock Closing Price Prediction | Python, NumPy, Pandas, Matplotlib, Scikit-Learn

May '24

- Compared accuracy of Support vector regression (SVR), Random Forest Regression (RFR), Linear Regression (LR), LSTM (Long Short Term Memory) and Convolutional Neural Network(CNN) at predicting stock price trends using the DSE stock dataset from Kaggle.

### Exam Hall Monitoring System | Python, C++, Arduino, OpenCV, YOLOv3, CNN

Dec '24

- Developed a robotics project where the ESP32-S3 cam module streams a video feed on the local WiFi network and the python program fetches the stream and processes it in real time to find violation of exam hall regulations, and in case of violation it saves screenshot of the feed as proof and buzzes an alarm and lights a red LED to notify the authority.

### Blood Aid | HTML, CSS, Python, Flask, SQLite

May '25

- An improvement upon the previous project Blood Donation System. Here, security was improved using the Bcrypt encryption algorithm. In addition, newer technologies such as Flask framework were used to modernize the code base.

### Anomaly Detection in Network Traffic | Python, Pandas, Scikit-Learn, XGBoost, CatBoost, TensorFlow

May '25

- This project focuses on detecting anomalies in network traffic using two different type machine learning (ML) models, Ensemble Learning and Deep Learning. Comparing the results to determine which is more effective for intrusion detection in cybersecurity.

## INTERESTS & HOBBIES

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