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, Arduino
- **Python Libraries:** NumPy, Matplotlib, Scikit-Learn, Pandas, OpenCV, OpenGL
- **Web Development:** HTML, CSS, PHP, JavaScript, Flask
- **Databases:** MySQL, SQLite
- **Other Expertise:** LaTeX, Microsoft Office, Google Workspace

EDUCATION

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

Rajuk Uttara Model College **2018 – 2020**
Higher Secondary Certificate *GPA 5.00*

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**

- Conducted a comparative analysis of five machine learning algorithms in predicting stock price trends using DSE Stock dataset from Kaggle. The models consist of Support vector regression (SVR), Random Forest Regression (RFR), Linear Regression (LR), LSTM (Long Short Term Memory) and Convolutional Neural Network(CNN).

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.

EXPERIENCE & ACHIEVEMENTS

- Solved over **250 problems** on Codeforces.
- Secured 10th postion with Team Deathwish in **BRACU Intra University Junior Contest**, 2022.
- Participated in 2021 and 2023 ACM ICPC Regional Preliminary.

INTERESTS & HOBBIES

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