# Md Monowarul Islam

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## SUMMARY

Computer Science graduate awaiting conferral, 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 nearly 500 problems in Codeforces and LeetCode. Seeking to contribute as a software engineer in a dynamic environment.

## PROJECTS

**Blood Donation Services** ***HTML, CSS, PHP, MySql***

- 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.

**Blood Aid** ***HTML, CSS, Python, Flask, SQLite***

- 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.
- **Live Demo** at: https://bloodaid-2wfk.onrender.com

**Brain Tumor Detection** ***Python, PyTorch, NumPy, Pandas, Matplotlib***

- Built a Convolutional Neural Network (CNN) based model with PyTorch.
- Trained and tested the model using Brain Tumor MRI Dataset.
- Achieved nearly 96% in accuracy and precision along with a 95.56% true positive rate.

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

- 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.

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

- 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** **2021 – 2025**
*Bachelor of Science in Computer Science* *CGPA 3.48*

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

## TECHNICAL SKILLS

- **Programming Languages:** Python, C++, C, JavaScript, PHP
- **Frameworks & Libraries:** Flask, ReactJS, NextJS, NumPy, Pandas, OpenCV, TensorFlow, Scikit-Learn
- **LLMs & CLI tools:** GeminiCLI, CodexCLI, Llama
- **Web Development:** HTML, CSS
- **Databases:** MySQL, SQLite
- **Other Expertise:** GitHub, LaTeX, Arduino

## EXPERIENCE & ACHIEVEMENTS

- Solved **280+ problems** on Codeforces and **200+ 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 for academic projects.