

# MD MONOWARUL ISLAM

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🌐 [mi-shraban.vercel.app](https://mi-shraban.vercel.app) 💬 [mi-shraban](https://mi-shraban) 💻 [xordan.-](https://xordan.-) 💬 [xordan77](https://xordan77) 💬 [Md Monowarul Islam](https://Md Monowarul Islam)

## 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 a strong base in problem-solving experience having solved over 500 problems on **Codeforces** and **LeetCode** combined.

## 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 user information security using Bcrypt encryption.
- Live Demo** at: [bloodaid-2wfk.onrender.com](https://bloodaid-2wfk.onrender.com)

### Brain Tumor Detection

*Python, PyTorch, FastAPI, NumPy, ONNX*

- Built, trained, and tested a CNN based model with PyTorch and Brain Tumor MRI Dataset.
- Achieved nearly 96% in accuracy and precision along with a 95.56% true positive rate.
- Live Demo** at: [tumor-detector-xordan.vercel.app](https://tumor-detector-xordan.vercel.app)

### 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).

### 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.

## TECHNICAL SKILLS

- Programming Languages:** Python, C++, C, JavaScript, HTML, CSS
- ML & DL Libraries:** TensorFlow, PyTorch, Scikit-Learn, OpenCV, NumPy, Pandas
- Web Libraries & Frameworks:** Flask, FastAPI, ReactJS, NextJS
- LLMs & CLI tools:** GeminiCLI, CodexCLI, Llama
- Databases:** MySQL, SQLite
- Other Expertise:** GitHub, L<sup>A</sup>T<sub>E</sub>X, Arduino

## EDUCATION

### BRAC University

*Bachelor of Science in Computer Science*

**2021 – 2025**

*CGPA 3.48*

### RAJUK Uttara Model College

*Higher Secondary Certificate*

**2018 – 2020**

*GPA 5.00*

## 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.