

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

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
- **CLI tools:** Gemini CLI, Codex CLI, Llama CLI
- **Databases:** MySQL, SQLite
- **Other Expertise:** GitHub, L^AT_EX, 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 the 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.

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

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

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.