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, LaTeX, Arduino

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*

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.