MD SAYEDUL ISLAM

Computer Science & Engineering Student | Machine Learning & Computer Vision
Gazipur, Bangladesh • +880 1727 183143 • mdsayedul764@gmail.com
linkedin.com/in/saidul07 • github.com/saidul-07

RESEARCH PROFILE

Third-year B.Sc. Computer Science and Engineering student at Dhaka University of Engineering & Technology (CGPA 3.62/4.00) with a focus on machine learning and computer vision. Currently working on AI-based rice panicle detection and growth-stage recognition under faculty supervision, with experience building Android applications in Java. Aspiring PhD researcher interested in efficient, practical AI systems for real-world problems.

Research Interests: Computer Vision • Object Detection • Deep Learning • Efficient AI • Practical AI

EDUCATION

Dhaka University of Engineering & Technology (DUET), Gazipur — Expected 2027
B.Sc. in Computer Science and Engineering | CGPA: 3.62 / 4.00

Dhaka Polytechnic Institute, Dhaka — 2018 – 2022
Diploma in Engineering, Computer Technology | CGPA: 3.82 / 4.00

RESEARCH & PROJECT EXPERIENCE

Rice Panicle Detection and Growth-Stage Recognition | Computer Vision Research — Ongoing
Supervisor: Dr. Umme Fawzia Rahim

- Collected a dataset of 4,500 rice panicle images (1,500 per stage across booting, heading and maturity stages), captured with a phone camera from a drone-style aerial viewpoint; CVAT annotation in progress.
- Applying Python-based machine learning, deep learning and computer vision methods to detect rice panicles and recognize rice growth stages from images.
- Exploring lightweight, resource-efficient vision models for devices with limited computing power.
- Working toward integrating the AI workflow into an Android application.

MyDUET — Integrated Mobile Application for DUET Services | Academic Project
Java, SQLite, Android

- Developing an Android application that consolidates DUET student services — notices, registration, e-learning and question bank — into a single platform.

Traffic Control System | Academic Project

- Implemented vehicle detection, camera-based image capture and number-plate analysis, gaining practical exposure to computer vision applications.

SKILLS

Programming	Python, C++, Java, Dart, PHP
Machine Learning / AI	PyTorch, TensorFlow/Keras, Scikit-learn, OpenCV, Explainable AI, Fuzzy Logic Control, Metaheuristic Algorithms
Web & Mobile	Flutter, Android (Java), Django, Laravel, SQLite
Data Visualization	Matplotlib, Seaborn, Plotly, OriginPro, Microsoft Visio
IoT & Hardware	IoT system design and development, sensor calibration, embedded systems, software–hardware integration
Tools	Git, Canva, Figma
Languages	Bengali (Native), English (Fluent)

LEADERSHIP, SERVICE & COMMUNITY

Research & Innovation Secretary, DUET Computer Society — 2025 – Present
Joint Secretary, DUET Math Club — 2026 – Present
Campus Ambassador, 2nd International Student Research Conference (ISRC) 2026 — 2026
Volunteer, ICSHSD 2025 Conference; DUET IUPC 2026; National Math Carnival 2026 — 2025 – 2026

TRAINING

Software Quality Assurance & Testing Trainee Apr 2026 – May 2026

EDGE Project, Bangladesh Computer Council (BCC), ICT Division — Government Training Initiative

- Completed training in software quality assurance, manual testing, test-case design, bug reporting, defect tracking, SDLC and STLC.

COMPETITIVE PROGRAMMING & COMPETITIONS

- **Solved 1,000+ problems** on Codeforces, AtCoder and CodeChef.
- **Participant:** DUET IUPC 2025; ICT Olympiad 2026.
- **Profiles:** Codeforces (saidul07) | CodeChef (saidul07)

REFERENCES

Dr. Mohammod Abul Kashem
Professor, Department of CSE
Dhaka University of Engineering & Technology (DUET), Gazipur
Mobile: +880 1727 875380 | Email: drkashemll@duet.ac.bd

Dr. Umme Fawzia Rahim
Assistant Professor, Department of CSE
Dhaka University of Engineering & Technology (DUET), Gazipur
Mobile: +880 1748 107030 | Email: fawzia.rahim@duet.ac.bd