

FARDIA FARUQUE

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EDUCATION

Chittagong University of Engineering and Technology (CUET)

Feb 2020 – Aug 2025

B.Sc. in Computer Science and Engineering

CGPA: 3.26

Undergraduate Thesis: Detection and Recognition of Text in Low-Light Natural Scenes

Proposed an end-to-end pipeline for low-light scene text recognition using EnlightenGAN-based enhancement with custom post-processing, CRAFT detection, and OCR models to improve character error rate compared to existing methods.

SKILLS

Programming Languages:	Python, C, C++, Java, HTML, CSS, Tailwind CSS, JavaScript, PHP, SQL
Frameworks	Reactjs, Nextjs, Flutter, Android SDK, OpenCV, YOLO (v5/v8), CRAFT, TensorFlow, PyTorch
Tools	VS Code, Git, NetBeans, Linux

PROJECTS

PetShop Ecommerce Website [HTML, CSS, JS, PHP, MySQL]

[GitHub](#)

- E-commerce style website for browsing pets/products, with add-to-cart and adoption system.
- Enabled user reviews, sitter applications, and live deployment for real users.

Traffic Signal Detection App [Android Studio (Java), YOLOv5, TFLite]

[GitHub](#)

- Android app for real-time detection of Green, Yellow, and Red signals from live camera feed.
- Integrated YOLOv5 TFLite model for mobile inference and future smart traffic expansion.

Flappy Bird (Customized) [Python]

[GitHub](#)

- Enhanced Flappy Bird game with lives system, collectibles, and score penalty mechanism.
- Balanced gameplay by continuing from last score if player has extra lives.

CUETWedlock.com [HTML, CSS, PHP, Python]

[GitHub](#)

- Matrimonial website with recommendation system, chat option, and user feedback integration.
- Developed user-friendly interface and Python-based recommender engine.

Hall Management System [Java Swing, MySQL]

[GitHub](#)

- Desktop application for student info, room allocation, dining fees, and refund tracking.
- Implemented search filters, token refunds, and automated fee calculation.

EXTRA-CURRICULAR ACTIVITIES

- Member, IEEE Student Branch CUET – Participated in technical sessions and networking events.
- Member, Robo Mechatronics Association (RMA), CUET – Engaged in robotics and AI-related activities.
- Took part in multiple hackathons and case solving competitions, gaining problem-solving and teamwork experience.