Ikkty Rahman

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Education

Independent University, Bangladesh   Dhaka, BD
BS Computer Science *GPA: 3.63*   Jan 2021 - Dec 2025 (Expected)

HEED International School (HIS)   Dhaka, BD
IGCSE & IAL (Edexcel)   Aug 2020

Projects

Simulating Operations of an Amusement Park

- Group project in Java simulating amusement park operations, focusing on visitor and operations manager functionalities.
- Developed visitor functionalities including login, ticket purchasing, and booking options.
- Implemented a cart system that updates instantly for inventory management.
- Created and implemented admin interface for operations managers to add merchandises.

Student Performance Monitoring System (SPMS v4.0)

- Worked on an existing system for evaluating student performance, following IEB guidelines.
- Utilized PHP, MySQL, and JavaScript.
- Implemented data visualization using Google Charts, and features for CSV and PDF export.

Canteen Management System

- Developed a web-based system to streamline food ordering at university canteens.
- Applied HTML, CSS, PHP, JavaScript, and MySQL.
- Features include a menu, shopping cart, and profile management with password change requiring current password verification.

Spendwise Tracker - An expense tracker app

- Developed an expense tracker mobile app using Dart, Flutter and Firebase for backend.
- Enabled users to authenticate and manage their accounts through Firebase Authentication.
- Implemented add, edit, and delete expenses with categories and amounts; with push notifications to warn users when spending approaches their set monthly limit.
- Added the ability to display summary statistics and visualizations of expenses via graphs.

Chat Application

- Created a chat app to learn Flutter development, using Dart and Firebase.
- Features include user authentication, chatrooms, message timestamps, and user status indicators.

Semantic Segmentation of Brickfields using Deep Learning: A Comparative Analysis of State-of-the-Art Models on Bangladeshi Geospatial Data (Ongoing Thesis)

- Trained a semantic segmentation model to detect brickfields using Google's SemiVL on Bing RGB satellite imagery of Dhaka region.
- Created pixel-level annotations from scratch and developed data preprocessing pipeline for converting TIFF patches to PNG format.
- Achieved 91.42% mIoU with hyperparameter tuning; used Weights & Biases for training visualization and experiment tracking.
- Will be conducting comparative analysis between SemiVL, U-Net, DeepLabV3+, and UniMatch models.

Technical Skills

Languages:	Python, Java, JavaScript, PHP, HTML, CSS, SQL, Dart
Tools:	MySQL, Android Studio, Git
Frameworks / Libraries:	Flutter, NumPy, Matplotlib, Pandas, wandb, Fastai

Honors & Awards

Vice Chancellor's List   Independent University, Bangladesh
For attaining a CGPA of 3.50 or more in the third successive semester.   Autumn 2021 - Summer 2022
                                                                            Autumn 2023 - Spring 2024