

MD. ROBAYED MOLLA

Madhukhali, Faridpur, Bangladesh

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EDUCATION

B.Sc. in Computer Science and Engineering

Khulna University of Engineering & Technology (KUET) CGPA: 3.44/4.00 Jan, 2020 - July, 2025(Expected)

TECHNICAL SKILLS

Programming Languages:	C, C++, Python, Java
Web Technologies & Frameworks:	HTML, CSS, JavaScript, Laravel, React
App Development:	Android (Java), Swift
Databases:	MySQL, Firebase
Data Science:	Pandas, NumPy, NLP, LLMs
Others:	Git, GitHub, Problem-Solving

MAJOR PROJECTS

Thesis: Byte Pair Encoding for Bangla Word Stemming. Jan 2024 - Present

The BPE-based Bangla stemmer reduces words to their root forms by dynamically learning subword patterns from a training corpus, eliminating the need for predefined rules or large annotated datasets. It constructs root words by merging frequent byte pairs, ensuring efficiency, scalability, and accuracy. Unlike traditional stemmers, it addresses issues like over-stemming and under-stemming while being adaptable to diverse inflected forms. This approach offers opportunities for future enhancements, such as integrating lemmatization or improving performance through parallel processing, making it a robust and flexible solution for root word extraction.

Technologies: NLP, Python

AliExpress Product Review Reply Management System March 2025 - May 2025

An intelligent system for fake review detection, category classification, sentiment analysis, and **generating response** to product review using **LLMs**. Achieved high accuracy across tasks and optimized performance with LoRA, QLoRA, and quantization. Technologies: Python, NLP techniques, and LLMs

Easy-Travel - Bus Ticketing Website May 2023 - June 2023

A dynamic bus ticket booking Website with route-based search, real-time schedules, **seat selection**, **ticket booking**, **admin activities**, and MySQL integration. Technologies: HTML, CSS, PHP, MySQL, Laravel

SellXChange - Car Purchasing Android App Oct 2022 - Dec 2022

An Android App for car purchasing having user authentication, product browsing, **cart management**, payments, and admin features for managing categories and products. Technologies: Java, Android SDK, Firebase

Fake Product Identification using Blockchain Oct 2023 - Nov 2023

Developed a decentralized web application to identify counterfeit products using Ethereum blockchain. Smart contracts were written in Solidity and deployed on a local blockchain (Ganache) via Truffle. The system ensures product authenticity by storing unique identifiers on-chain and allowing users to verify legitimacy through a browser-based interface integrated with MetaMask. Technologies: Solidity, Truffle, Ganache, Web3.js, Node.js, MetaMask

Bank Management System - A Database system May 2023 - Jul 2023

Bank Management System using **Oracle SQL Plus 21c** for managing branches, customers, accounts, loans, and employees with queries, joins, and transaction management. Technologies: Oracle SQL, PLSQL

Temperature Dashboard - Real-time Monitoring Web App June 2025

A real-time temperature visualization dashboard featuring **RESTful API with rate limiting**, **Chart.js-based live**

graph updates, logging, and performance-tested backend. Technologies: React, Node.js, Express, Chart.js, Axios, Morgan

Backgammon Game - AI Game Jun 2024 - Jul 2024
Backgammon AI Game is a desktop app, features a Tkinter-based GUI with AI players using Heuristic approach and Minimax algorithms, offering Normal and Hard modes for strategic gameplay. Technologies: Python, Pygame

Cardiac Recorder - Android Health Monitoring App Jun 2023 - Jul 2023
Developed a mobile application to record and track users' systolic & diastolic blood pressure and heart rate. The app helps users monitor their cardiovascular health over time, offering insights for improved lifestyle and decision-making. Features include real-time data entry, historical record tracking, and user-friendly health monitoring interface. Technologies: Java, Android Studio, Firebase

BioWell - IOS Application Oct 2023 - Nov 2023
IOS application for monitor a person health, Diabetic prediction and used API for showing corona statistics. Technologies: Swift

ACHIEVEMENTS AND AWARDS

Pupil at Codeforces , Maximum Rating: 1291	Present
900+ problems solved across multiple platforms	Present
Dean's Award , First Year	Session: 2019 - 2020
Second Runner-Up , Regional Math Olympiad, Faridpur	2019

EXPERIENCE

Social Media Manager at Codeminers IT Limited (Remote)	April, 2022-Present
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EXTRA CURRICULAR ACTIVITIES

Event Organizer - BitFest 2.0	Jan 2025
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Organizer of the Inter-University Programming Contest (IUPC) and managed event logistics efficiently.