MD. ROBAYED MOLLA

Madhukhali, Faridpur, Bangladesh

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SUMMARY

A competitive programmer passionate about solving complex problems and driving innovation through technology. Skilled in algorithms, data structures, and software development, committed to building efficient and high-quality solutions.

EDUCATION

B.Sc. in Computer Science and Engineering
Khulna University of Engineering & Technology (KUET) CGPA: 3.44   2020 - April,2025(Expected)

ACHIEVEMENTS AND AWARDS

Pupil, Maximum Rating: 1291,(600+ problems solved) at Codeforces	Present
100+ problems solved at CSES	Present
Dean's Award, First Year	2022
Second Runner-Up, Regional Math Olympiad	2019

TECHNICAL SKILLS

Programming Languages:	C (Expert), C++ (Expert), Java (Beginner), Python (Beginner)
Database:	MySQL, Firebase
Framework and SDK:	Laravel
Misc:	HTML, CSS, PHP, Swift, Git

MAJOR PROJECTS/THESIS

Thesis: Byte Pair Encoding for Bangla Word Stemming.

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

Bank Management System

Bank Management System, built with Oracle MySQL, manages branches, customers, accounts, loans, and employees, offering features like queries, joins, and transaction management for efficient operations.
Technologies: PLSQL

Backgammon Game

Backgammon AI game features a Tkinter-based GUI with AI players using Fuzzy Logic and Minimax algorithms, offering Normal and Hard modes for strategic gameplay.
Technologies: Python, Pygame

Easy-Travel

Website for Bus Ticket Booking.
Technologies: HTML, CSS, PHP, MySQL, Laravel

SellXChange

An Android car selling app with user authentication, product browsing, cart management, payments, and admin features for managing categories and products.
Technologies: Java, Android SDK, Firebase Realtime Database