

Bithi Rani Nath Borna

Computer Science & Engineering Undergraduate | AI/ML Research Enthusiast

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🌐 LinkedIn

🐙 GitHub

🌐 Portfolio

PROFILE

Computer Science and Engineering undergraduate at Leading University (CGPA 3.69/4.00) focused on Artificial Intelligence and Machine Learning. Built full-stack, mobile, and compiler projects with Flutter, React/Node.js, and Flex/Bison, and is now strengthening skills in data analysis, model development, and technical writing. Aims to develop intelligent, user-centered technologies for education and healthcare.

EDUCATION

Leading University, Sylhet, Bangladesh

B.Sc. in Computer Science and Engineering

Jun 2023 – Jun 2027 (Expected)

CGPA: 3.69 / 4.00

RESEARCH INTERESTS

Machine Learning, Deep Learning, and Computer Vision, with a focus on applied AI for education and healthcare.

PROJECTS

Mini Marvels – Parent-Child Learning and Task Management App

Feb 2026 – Jun 2026

Flutter, Dart, Supabase, PostgreSQL

[GitHub](#)

- Built a Flutter learning and task-management application with separate parent and child interfaces.
- Designed and implemented the complete parent-side UI, navigation flow, and application logic.
- Implemented child profile management, task assignment with proof verification, and an XP reward system.
- Integrated parental controls (game-time limits, bedtime restrictions) with cloud database operations on Supabase.

Suborno – Bengali Programming Language Compiler

Sep 2026

Flex, Bison, Python, Three-Address Code, Docker

[GitHub](#)

- Developed a Bengali-script programming language compiler with interactive visualization of compilation phases.
- Implemented the lexer and the three-address-code generator to turn source code into intermediate representations.
- Integrated lexical analysis, parsing, semantic checking, and Python code generation into a single pipeline.
- Deployed a browser-based compiler environment using Docker.

PetPaw – Pet Marketplace and Donation Platform

React.js, Node.js, MongoDB

[GitHub](#)

- Built a full-stack web platform for pet adoption, sales, and donation management.
- Implemented authentication, listing management, database operations, and reusable React components.

TECHNICAL SKILLS

AI / ML: Machine Learning, Deep Learning, Computer Vision, Python, Kaggle, Google Colab

Languages: Python, C, C++, Java, JavaScript, Dart

Web & Mobile: HTML5, CSS3, React.js, Next.js, Node.js, Flutter

Databases: PostgreSQL, MySQL, MongoDB, Supabase

Tools: Git, GitHub, Docker, VS Code, Flex & Bison

Core Concepts: Data Structures & Algorithms, Object-Oriented Programming, Database Management, Compiler Design, Computer Networking

CERTIFICATIONS

Complete Web Development Course – Programming Hero

Dec 2025

HTML, CSS, JavaScript, React, Node.js, and modern web development practices. Credential ID: WEB12-4624.

LANGUAGES

English: Professional Proficiency **Bengali:** Native