Faysal Mahmud

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/Faysal Mahmud
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Skills

Programming Languages : Python, C/C++, MicroPython

Technologies and Tools : FastAPI, Bootstrap,Git, GitHub, Docker, VS Code, Thonny, Neon, Ollama, Locust, REST API Design, Authentication, Databases : MySQL,SQLite, PostgreSQL, Machine Learning : Supervised & Unsupervised Learning (Basics), Model Training with Python, Operating Systems : Windows, Linux ,IoT & Embedded Systems : ESP32, Arduino

Problem Solving : 450+ (Leetcode, Codeforce, AtCoder, Varsity, Breecrowd, HackerRank, Vjuge) link

Work Experience

Python Trainer Aug 2025 – Dec 2025

Daffodil International University Robotics Club *Part-time, On-site*

Object-Oriented Programming, Data Structures and Algorithms, and provided hands-on experience with Embedded Systems.

Education

Daffodil International University 2022 – 2025

BSc in Software Engineering (Majon in Data Science) *3.4/4*

Uttara High School and College 2018 – 2020

HSC *GPA 5*

Saffiuddin School and College 2016 – 2018

SSC *GPA 5*

Projects

Smart Attendance System (IoT-Based) Web Link | Video | Facebook | Drive

Website : Attendance data export (CSV/Excel download). Device management: add new devices and generate unique secret keys for specific users. Role-based access control: Super Admin, Admin, User. Role-based access control: Super Admin, Admin, User **Tools**: Python, FastAPI, Jinja, JWT Auth, Neon (PostgreSQL), HTML, CSS

Device: Too low price device around 200 BDT. It's have display and notification system. Supports offline mode: stores card data without internet and auto-uploads once online, then clears RAM.
Tools: microPython, WebSocket, ESP32, RFID Reciver, Buzzur, Led, Display

Real-Time-Microphone-Transcription-Web-Application Video | GitHub

About: Develop a fully functional, real-time speech-to-text application where audio captured from the user's browser is streamed to the backend for transcription. All processing must operate on CPU-only using open-source speech recognition models.
Tools: Backend: Python, WebSocket, FastAPI | FrontEnd: React, TypeScript

Samsung Phone Advisor GitHub | Video

About: Implemented AI-driven recommendations with a local LLM, designed a PostgreSQL database for Samsung phone specs, built regex-based comparison logic, and developed FastAPI REST APIs with secure automated setup. **Tools**: Local LLM (Ollama DeepSeek v3.1), PostgreSQL, FastAPI

Bank Note Authentication Detection GitHub | Image

Tools: Dataset: Taken from Kaggle, Model: Trained in Google Colab and exported as .pkl (binary classification model), Backend: FastAPI (with Uvicorn server), Frontend: Streamlit for a simple UI, Language: Python

Fire Fighting Car & Alert System GitHub | Image | Video

Detect fire using flame sensors. Navigate automatically toward the fire source. Spray water to extinguish the fire, Detect smoke or alcohol gas, Language: C/C++

Python Game Video | GitHub

- Snake get to big when eat food. Food appear randomly
- Auto save user name and high score
- Full self hand written code no AI made

Certificate

Certificate :

1. AWS Academy Graduate - Machine Learning for Natural Language Processing - Training Badge,
2. Machine Learning Foundations - Training Badge