AYAN CHOWDHURY

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GitHub — LinkedIn

EDUCATION

Asansol Engineering College, Asansol, India August 2023 – Present
Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence and Machine Learning)

Vijaya P.U College, Jayanagar, India Passed: 2023
Intermediate (Science) – Percentage: 84.33%

Assembly of God Church School, Sodepur, India Passed: 2021
Matriculate (Science) – Percentage: 82.33%

PROJECTS

BHPredictor – Boston Housing Price Predictor June 2025 – June 2025

- Built a real-time ML web app using Streamlit and scikit-learn to predict median housing prices from 13 socioeconomic factors.
- Trained a regression model on the 1993 Boston Housing dataset and serialized it using joblib for fast inference.
- Added batch prediction via CSV upload and enabled downloadable output for enhanced usability.

ZERO Chatbot Aug 2024 – May 2025

- Developed ZERO, an AI-powered chatbot using FastAPI, LangChain, and Google Gemini for intelligent, context-aware conversations.
- Improved query retrieval efficiency by 40% using Faiss and integrated adaptive learning.
- Built a custom UI with Streamlit, increasing user engagement by 30%.

SKILLS

Programming Languages: Python, C, C++, SQL
AI/ML Tools: TensorFlow, Keras, OpenCV, LangChain, FastAPI
Frameworks: Flask, Django, NextJS, ReactJS, NodeJS, ExpressJS
Web Technologies: HTML, CSS, JavaScript, Bootstrap
Databases: MongoDB, MySQL, Firebase, PostgreSQL
Cloud Tools: Google Cloud, AWS
Soft Skills: Problem Solving, Communication, Adaptability, Leadership
Languages: Bengali (Native), English (Full Professional), Hindi (Full Professional)

EXTRACURRICULAR

AIML Core Member – GDG on Campus, AEC Sep 2024 – Present

- Led and organized AI/ML workshops for over 100+ students.
- Mentored peers on AI/ML projects, enhancing skills in AI, ML, and coding practices.
- Increased workshop participation rate by 25% through improved engagement strategies.

CERTIFICATIONS

- Face Detection with OpenCV in Python - Great Learning.
- Building LLM Applications With Prompt Engineering - NVIDIA.