

AYAN CHOWDHURY

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GitHub — LinkedIn

EDUCATION

Asansol Engineering College, Asansol, India B.Tech in Computer Science and Engineering (Artificial Intelligence and Machine Learning)	Aug 2023 – Present
Vijaya P.U College, Jayanagar, India Intermediate (Science) – 84.33%	Passed: 2023
Assembly of God Church School, Sodepur, India Matriculate (Science) – 82.33%	Passed: 2021

PROJECTS

BHPredictor – Boston Housing Price Predictor	Jun 2025
<ul style="list-style-type: none">Built a real-time ML web app using Streamlit and scikit-learn to predict housing prices from 13 socioeconomic factors.Trained a regression model on the Boston Housing dataset and serialized with joblib for fast inference.Added batch prediction via CSV upload with downloadable results.	
ZERO Chatbot	Aug 2024 – May 2025
<ul style="list-style-type: none">Developed an AI-powered chatbot using FastAPI, LangChain, and Google Gemini for context-aware conversations.Improved query retrieval efficiency by 40% using Faiss with adaptive learning.Built a custom Streamlit UI, increasing user engagement by 30%.	
Deforestation Monitoring Using Satellite Imagery	Aug 2025 – Sep 2025
<ul style="list-style-type: none">Developed a two-stage ML web app with Streamlit, MobileNetV2, and Random Forest for deforestation monitoring.Stage 1: Classified images as <i>Forest</i> vs <i>Deforestation</i>; Stage 2: Detected subtype (<i>Industrial, Residential, Highway, etc.</i>).Integrated pretrained MobileNetV2 as feature extractor and deployed serialized classifiers with joblib.Designed interactive dashboards with login-based access and team profile showcase.	

SKILLS

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

EXTRACURRICULAR

AI & ML Lead – GDG on Campus, AEC Lead AI/ML initiatives, organize technical workshops for 100+ students, mentor peers on projects, and drive participation growth by 25% through engaging strategies.	Sep 2025 – Present
AIML Core Member – GDG on Campus, AEC Contributed as a core team member, co-organized AI/ML workshops, and mentored students on coding practices, laying the foundation for promotion to Lead.	Sep 2024 – Aug 2025

CERTIFICATIONS

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