

Sayantan Mukherjee

Full stack web dev with AI/ML

PROJECT EXPERIENCE

AI-Powered Health Symptom Checkers

AI/ML Project | Nextjs,Tailwind,TensorFlow, HuggingFace

- Built a full-stack app to predict symptoms using NLP and wearable data.
- Used BERT (HuggingFace) to extract symptoms from user input.
- Integrated API for real-time health monitoring,achieved 90% model accuracy
- Developed chatbot (Nextjs) for interactive diagnostics.

Crop Prediction System

ML Project | Python, Scikit-Learn, Pandas, Matplotlib,Streamlit(Backend),Reactjs,,Bootstrap

- Predicted optimal crops based on soil & weather data.
- Trained Random Forest & SVM models (90%+ accuracy).
- Used EDA and visualizations to analyze feature impact.
- Applied hyperparameter tuning for performance gains.

E-Commerce Website (Amazon Clone)

Full Stack Project | Django,Html,SQLite, Bootstrap

- Developed responsive e-commerce platform with real-time cart & search.
- Built secure login, payments, and admin dashboard.
- REST APIs (Django) consumed via dynamic frontend.
- Build a fully fledged separate admin and customer page

VOLUNTEERING ACTIVITIES AND EXTRACURRICULARS

Hardware Model Making Competition (Hardware, 2023 & 2024)

- 2023: Created GPS Tracker with ESP32, GSM.
- 2024: Built Gesture-Controlled Robotic Car with ESP32, MPU6050.
- Focused on hardware-software integration, low-latency design.

SUMMARY

Motivated and detail-oriented Electronics & Communication graduate from Asansol Engineering College with a strong foundation in AI, Machine Learning, and full-stack development. Passionate about solving complex data problems and building scalable, intelligent systems. Eager to bring value by leveraging hands-on project experience in NLP, ML, and modern web technologies like Django, React, and Node.js. A quick learner and collaborative team player with proven experience in both software and hardware-based innovations.

CONTACT

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SKILLS

- Programming:** Python, C, JavaScript
- Web Development:** Django, React.js, Node.js, Next.js, REST APIs
- Concepts:** OOP, Data Structures & Algorithms
- Machine Learning:**NLP, TensorFlow, HuggingFace (BERT), Reinforcement Learning
- Tools & Deployment:** Git, Github
- Other:** SQL, Bootstrap/Tailwind, Computer Networks

EDUCATION

Bachelor of Technology (B.Tech)

Asansol Engineering College

Branch:Electronics and Communication

CGPA: 7.12 | Expected Graduation: June 2026

Higher Secondary (Class 12)

St. Patrick's Higher Secondary School

Board: ISC | Percentage: 71.8% | Year of Completion: 2022

Secondary (Class 10)

St. Vincent's High & Technical School

Board: ICSE | Percentage: 84.8% | Year of Completion: 2020

OTHER

INDUSTRIAL TRAINING / INTERNSHIP EXPERIENCE

Industrial Trainee –Core Department

Chittaranjan Locomotive Works (CLW) | June 2025 – July 2025

- Underwent hands-on training in CLW's core engineering division.
- Gained exposure to the locomotive production lifecycle and quality control systems.