SAYANDIP SAHA⇗

Siliguri, West Bengal

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EDUCATION

Jalpaiguri Government Engineering College   **2023 – 2027**
Bachelor of Technology in Information Technology - ***CGPA - 9.14*** *till 4th Semester*   *Jalpaiguri, West Bengal*

EXPERIENCE

Summer Research Intern at Indian Statistical Institute, Kolkata⇗   **June 2025 - July 2025**
Deepfake video Detection ⇗ | PyTorch, OpenCV,MTCNN, Torchvision,Transformer, Scikit-Learn
- Developed a hybrid Deep Fake Detection model using Vision Transformer and auto encoder to detect temporal level inconsistencies from sequence of video frames achieving 65% test accuracy on **dataset**⇗
- Published a paper on 12th International Conference on Microelectronics, Circuits and Systems, Micro2025 ⇗

PROJECTS

MedGPT ⇗ | Python,React, Langchain,FastAPI,Pinecone,React,Postgresql,SQLAlchemy,Docker   **2025**
- Built MedGPT, a medical Q&A system using a RAG pipeline with Langchain,Pinecone Vector DB, GPT-OSS-120B, and Sentence Transformers; implemented FastAPI backend, PostgreSQL and React frontend.
- Developed an end-to-end medical assistant capable of suggesting accurate causes, symptoms, and treatment.

GPT2 model From Scratch ⇗ | PyTorch, tiktoken, hugging faces, matplotlib   **2025**
- Implemented BPE Tokenizer to split raw text into sub word units,with total of 5145 tokens in dataset
- Implement 165 Million parameter GPT2 architecture of 12 layers decoder block each with 12 attention heads

AgriTech Web Solutions ⇗ | Python, TensorFlow, Scikit-Learn, Flask, Docker, GitHub,HTML,CSS **2025**
- Built and deployed a Flask web application integrating weather forecasting, integrating ML models for crop and fertilizer recommendation from environmental factors, along with a CNN-based crop disease detection system.

TECHNICAL SKILLS

Languages: Python, C, C++, Javascript

Technologies/Frameworks: Numpy, Pandas, Matplotlib, Seaborn, Pytorch, Optuna, Tensorflow, Scikitlearn, LangChain,LangGraph, Hugging Faces, Vector Databases, Flask, FastAPI, Linux, GitHub, Git, HTML, CSS, JS, React.js, Node.js, MongoDB, Express.js,SQL, Docker, AWS

Core Concepts: Data Structure and Algorithms, Database Management Systems,Computer Networks, System Design Principles, Object Oriented Programming

EXTRACURRICULAR

SPOC, Training and Placement Cell, JGEC   **Dec 2023 –Present**
Coordinating for Oncampus placement drives
AI/ML Lead, GDSC, JGEC   **November 2024 –Present**
Organized Seminars and mentoring Sessions

ACHIEVEMENTS

Participated in Google Solution Challenge 2024 and 2025. ⇗
Participated in Smart India Hackathon
Achieved a rank of under 4000 among more than 82k teams in Amazon ML Challenge 2025

CODING PLATFORMS

Leetcode, Max rating **1699+** ⇗
Solved **200+** Problems across **Codeforces**
Newbie on Codeforces Max Rating **885+** ⇗

CERTIFICATIONS

- Machine Learning Specialization ⇗