

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.
- Applied learning rate scheduler, weighted sampling, and data augmentation, trained on FaceForensics dataset.
- Published a paper on 12th International Conference on Microelectronics, Circuits and Systems, Micro2025

PROJECTS

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
- Implemented 165 Million parameter GPT2 architecture of 12 layers decoder block each with 12 attention heads

MedGPT ↗ | Python, hugging faces, Langchain, Flask, Pinecone, React, Postgresql, SQLAlchemy

2025

- Built a medical QnA system (MedGPT) using a RAG pipeline, integrating Pinecone as a vector database, OpenAI's gpt-oss-120B LLM and Sentence-Transformer embeddings
- Implemented techniques like Semantic Chunker, ContextualCompressionRetriever to deliver relevant context.
- Developed an end-to-end medical assistant capable of suggesting accurate causes, symptoms, and treatment.

AgriTech Web Solutions ↗ | Python, TensorFlow/Keras, Scikit-Learn, Flask, Docker, GitHub, Render

2025

- Built Deployed a Flask Web App integrating ML models for crop disease detection, crop recommendation, and fertilizer suggestion on Render.
- Developed a CNN-based disease detection model optimized with TFLite for real-time predictions.
- Implemented ML models for crop and fertilizer recommendations using Random Forest and NPK-based analysis to enhance yield and sustainability.

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

EXTRACURRICULAR

Training and Placement Cell

Dec 2023 – Present

Jalpaiguri

SPOC

Coordinated for Oncampus placement drives

GDSC JGEC

November 2024 – Present

Jalpaiguri

AI/ML Lead

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 ↗