

SAYANDIP SAHA ↗

Siliguri, West Bengal

📞 +91-9679042278 📩 sahasayandip480@gmail.com 💬 LinkedIn 🐣 Github 🏆 Codeforces 🔍 Leetcode 🎯 Kaggle 🎯

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 ↗

PROJECTS

MedGPT ↗ | Python, React, Langchain, FastAPI, Pinecone, React, Postgresql, SQLAlchemy, Docker, Neon 2025

- Architected an end to end Retrieval-Augmented Generation (RAG) based medical assistant leveraging GPT-OSS-120B, and Sentence Transformers for context-aware response generation.
- Designed a scalable backend using FastAPI with JWT-based authentication and integrated NeonDB serverless PostgreSQL with SQLAlchemy ORM for efficient data modeling and persistence. [Link ↗](#)

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 ↗