Siddhant Manna

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Engineering student with hands-on experience in **applied Machine Learning**, **LLM-based systems**, and **back-end API development**. Proven ability to build end-to-end AI solutions for **noisy real-world data**, with emphasis on **correctness**, **validation**, and **production reliability**.

Education

Bachelor of Technology (BTech/BE) — Electronics and Communication Engineering
National Institute of Technology, Srinagar, Jammu and Kashmir, India
JEE Mains: 96.9832 Percentile
Indian School Certificate (ISC), CISCE — Science with Computer Science
Methodist School, Dankuni, West Bengal, India

Major Competitive Achievement

Bajaj Finserv Health — HackRx Datathon 2025 (Individual, 48-Hour)
29–30 November 2025
- Selected participant among **IITs, NITs, and BITS**; **1000+ participants nationwide**.
- Achieved **3rd place (Round 3)** and **7th place in the Final Round (Round 4)**.
- Built an **LLM-based medical bill extraction system** for multi-page PDFs with **OCR noise** and handwritten text.
- Designed a **math-consistent extraction pipeline** preventing **double-counting** using validated line items.
- Developed a **production-style API** with **schema validation**, **fallback inference**, and automated checks.

Work Experience

RecimoTech Solutions   *Member Technical Intern | 1.5 months*
- Built strong proficiency in **Python** through applied ML experimentation and prototyping.
- Developed an automated options trading prototype using **OpenCV** and **Selenium**.
- Implemented **parameter-driven execution**, **profit/loss evaluation**, and structured **CSV logging**.

Projects

File-to-Video Encoder (Java, OpenCV)
- Encoded **binary files into video frames** and reconstructed them by decoding frames.
- Implemented **byte-to-pixel mapping** and a simple **GUI** for experimentation.
- Gained practical insight into **data integrity limitations** of video-based storage.

Skills

Core: Python, Data Structures & Algorithms, REST APIs, Backend Development
Machine Learning: LLM systems, NLP fundamentals, model validation
Tools: FastAPI, OpenCV, Selenium, Git, Linux
Databases: Basic SQL (queries, filtering, joins)

Certifications and Accomplishments

Accomplishments
- CodeChef: **4-star (Peak)**
- Codeforces: **Specialist (Peak)**
- CodeChef June Long Two 2022 — **Global Rank 1**
- CodeChef D'Code 2019 — **Global Rank 126**
- ICPC for Schools 2019 — **Finals Qualifier**
- INOI 2019 — **Grand Finale Qualifier**

Certifications
- HCI — IIT Guwahati
  (NPTEL: Course + Assignments + In-person Proctored Exam, Elite)
- DSA using Java — IIT Kharagpur
  (NPTEL: Course + Assignments + In-person Proctored Exam, Elite + Silver)
- Google Cloud Foundations — IIT Kharagpur
  (NPTEL: Course + Assignments + In-person Proctored Exam, Elite)
- Computer Graphics — IIT Guwahati
  (NPTEL: Course + Assignments + In-person Proctored Exam, Elite)
- Goldman Sachs — **Virtual Experience Software Engineering**