Shubh Samaiya

Indian Institute of Information Technology, Nagpur · B.Tech CSE · Roll No.: BT23CSA041

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Objective

To contribute to innovative projects in **Machine Learning, Deep Learning, Generative AI, and Web Development** by applying strong foundations in OOP, DSA, and networking, while continuously learning and adding value to the organization.

Skills

Programming	Python, C/C++, SQL, Java, JavaScript, TypeScript
ML/AI	TensorFlow, Scikit-learn, PyTorch, Transformers, BERT, Pandas, NumPy
Data Science	EDA, Data Preprocessing, Visualization, Statistical Analysis
GenAI	LangChain, Llama Index
Development Tools	Git/GitHub, Jupyter, Colab, VS Code, Linux, Kaggle
Web Development	MERN Stack, NextJS, Prisma, WebSocket, TurboRepo

sectionProjects & Experience

Cipher — Real-Time Anonymous Web Platform   *Live Demo*

- Built a **real-time college platform** using **Next.js, TypeScript, and WebSockets** to support low-latency user interactions.
- Designed modular frontend components and API routes following modern **App Router** and server-component patterns.
- Implemented backend services for authentication, data persistence, and real-time event synchronization.
- Utilized **Prisma with PostgreSQL** for efficient schema design, query optimization, and data integrity.
- Deployed and configured the system on **Vercel** with custom domain routing and production-grade environment handling.

Second Brain — AI-Powered Knowledge Management System   *Live Demo*

- Built a content aggregation platform using **React 19**, **Node.js**, and **PostgreSQL**, integrating **Gen-AI** summaries and **Vector Search** for 40+ sources.
- Architected a type-safe backend with **Prisma** and **Zod** for automated metadata extraction and secure data persistence.
- Designed a "Shareable Brain" feature enabling public access via unique links with **Tailwind CSS** and **Framer Motion**.
- Implemented semantic search and similarity ranking using vector embeddings to improve information retrieval accuracy.

Visitor Management System for IITN   *2025*

- Developed a full-stack platform for **visitor registration, movement tracking, and scheduling** within the institute campus.
- Implemented authentication, **QR-based check-ins**, and real-time notifications using WebSocket + PostgreSQL triggers.
- Reduced entry bottlenecks by **30%** and improved digital record-keeping for security audits.

Education

Degree/Certificate	Institute/Board	Year
B.Tech (CSE)	IIIT Nagpur	2023–Present
Senior Secondary (XII)	Sanskaar Valley Academy, Lalitpur (CBSE)	2022
Secondary (X)	St. Dominic Savio Public School, Lalitpur (ICSE)	2020

Positions of Responsibility

Google Developer Groups (GDG) Web Development Lead   *2024–Present*

- Organized and led **workshops on MERN stack, Next.js, and modern web tooling**, mentoring 50+ peers.
- Guided project teams in building scalable apps and encouraged open-source contributions.
- Coordinated with GDG community to conduct hackathons, coding sprints, and tech talks with industry experts.

Achievements

- Finalist in Techplex Hackathon, IIT BHU (2024).
- Solved 200+ coding problems on LeetCode (2025).