

Sanchita Mishra

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Skills

Languages: JavaScript, Java, Python, HTML5, CSS3

Frontend: React.js, Next.js, Tailwind CSS, Responsive UI Design, Component-Based Architecture

Backend: Node.js, Express.js, Flask, Spring Boot, REST API Design, JWT/OAuth Authentication, WebSockets (Socket.io)

AI / ML: LangChain, OpenRouter API, NumPy, Pandas

Databases: MongoDB, MySQL, SQL

Tools: Git, GitHub, Postman, Figma, VS Code, IntelliJ IDEA

Core CS: Data Structures & Algorithms (Java), OOP, System Design

Projects

Sentinel-Vault – Decentralized Zero-Trust Vault

[Link](#)

React.js, Node.js, LangChain, WebSockets

- Engineered a decentralized zero-trust file storage system utilizing AES-256 encryption and erasure coding, eliminating single points of failure inherent in traditional centralized databases.
- Built an AI-driven threat detection layer using LangChain for real-time IP forensics and pre-ingestion PII scanning, actively filtering malicious payloads and unauthorized data exposure.
- Designed an active defense system with adaptive rate-limiting and live UI lockdowns via WebSockets, instantly halting session activity upon detection of simulated breach attempts.

Parent-Connect – Smart Healthcare Monitoring System

[Link](#)

MERN Stack, Socket.io, Python, Tailwind CSS

- Developed a real-time full-stack patient monitoring system enabling caregivers to track vitals with sub-200ms latency using Socket.io.
- Implemented a tri-level triage classification algorithm (Normal/Warning/Critical) for automated early detection of patient health risks.
- Visualized 6+ months of multi-source patient telemetry via a LangChain AI chatbot and unified dashboards.

Career Partner – AI Career Guidance Platform

[Link](#) — [Live Demo](#)

Flask, SQL, HTML/CSS, OpenRouter API

- Built and deployed a full-stack AI career platform on Render with session-based authentication for secure user workflows.
- Integrated OpenRouter API to deliver rapid, personalized career recommendations and resume analysis.
- Developed a responsive SQL-backed interface with 10+ dynamic routes ensuring seamless cross-device compatibility.

Experience

Kushal Aide — Web Developer Intern

May 2024 – June 2024

- Translated Figma design mockups into fully functional, responsive UI components within an agile cycle, ensuring cross-browser compatibility.
- Shipped frontend features and refactored existing component architecture, standardizing the UI design system for a more consistent user experience.

Bureau of Indian Standards (BIS) — Scientist Intern

June 2024 – August 2024

- Conducted technical validation of electrical products against Indian Standards (IS), streamlining segments of the compliance reporting workflow.
- Analyzed test data and product specifications to derive data-driven insights for reliability evaluation, contributing to structured technical documentation and quality assurance reporting workflows.

Education

Bachelor of Technology in Computer Science and Engineering

2025 – 2028

Maharaja Agrasen Institute of Technology (MAIT), GGSIPU, New Delhi

GPA: 8.56 — Lateral Entry

Diploma in Electronics and Communication Engineering

2022 – 2025

Ambedkar Institute of Technology, DSEU, New Delhi

GPA: 8.45

Achievements & Leadership

- Secured **AIR 39** in the IPU-CET Lateral Entry Examination (2025).
- Finalist in multiple inter-college hackathons; secured Top 10 among 400+ teams in a national hackathon
- Organized HackWithMAIT and anchored 20+ college events, managing execution, sponsor outreach, and team coordination.
- Completed JPMorgan Chase Software Engineering Job Simulation via Forage with exposure to backend event-driven systems using Spring Boot and Apache Kafka.