

SANJAY SARASWAT

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SUMMARY

B.Tech (CSE–AI) student at KIET Ghaziabad, concurrently pursuing a BS in Data Science from IIT Madras. Experienced in building data-driven, AI-powered applications — including Generative AI integration (Google Gemini), analytics dashboards, and workflow automation that measurably reduce manual effort. Comfortable turning business problems into working prototypes end-to-end: requirement analysis, data modeling (SQL/NoSQL), backend/API development (Python, Flask, Node.js), and interactive dashboards/visualizations (Recharts, GeoGebra). Strong Python foundation (Pandas, NumPy) with hands-on Generative AI and automation project experience, and a product-oriented, design-thinking approach to problem-solving.

SKILLS

- Languages & Data: Python (Pandas, NumPy), SQL, JavaScript, TypeScript, C, C++, Java
- AI / Generative AI: Google Gemini AI integration, prompt engineering, predictive analytics, pattern detection, AI-assisted decision support
- Analytics & Visualization: Dashboarding & reporting (Recharts), data modeling, GeoGebra visualizations
- Automation & Backend: Flask, Node.js/Express.js, REST APIs, Redis, workflow/process automation
- Frontend: React, Next.js, Vue.js, HTML, CSS
- Cloud & Tools: AWS, Git/GitHub, MongoDB, SQLite, Kaggle

EXPERIENCE

Vinternship — Full-Stack Development Intern

Jun 2026 – Aug 2026

VLED Lab (Vicharanashala Lab for Education Design), IIT Ropar — under Prof. Sudarshan Iyengar

- Completed a structured full-stack internship (TypeScript, React, Node.js/Express.js, MongoDB) through case studies, real-world projects, and peer code reviews under agile daily standups — building product-development and cross-functional collaboration skills directly transferable to HR-tech product work.
- Designed and shipped a Kaprekar's Constant learning module (React 19, framer-motion) for Tenali, an open-source math-education platform, from concept to production, including a UX fix for long animation chains — end-to-end ownership from idea to deployed feature.
- Built 3D algebra visualizations in GeoGebra for Metric's Mystic and mentored peers on the concepts.

PROJECTS

AI-Powered Trading Journal & Analytics Platform

2026

Next.js, TypeScript, Supabase, Google Gemini AI, Recharts, Redis, NextAuth

- Built a full-stack analytics platform with a normalized relational schema for activity logging and performance analytics, plus interactive Recharts dashboards for decision support.
- Integrated Google Gemini AI for pattern detection, predictive analytics, and personalized, automated coaching based on historical data — a direct GenAI-for-decision-support use case.
- Cut manual data entry by 80% via bulk CSV/Excel import automation; implemented RBAC, NextAuth authentication, Redis rate limiting, and Zod validation for enterprise-grade security.

Hospital Management System (IITM Project)

2025

Flask, SQLite, Vue.js, JavaScript

- Built a full-stack app with role-based dashboards for administrators, doctors, and patients, streamlining records, scheduling, and billing workflows.
- Cut manual data-entry time by 40% by building intelligent form autofill and real-time validation — reducing clerical errors and manual effort, an automation pattern directly applicable to HR transaction processing.

Brain Tumor Detection using CNN

2024

Python, TensorFlow, Kaggle, OpenCV

- Trained a CNN on MRI scans, achieving 94.2% accuracy using data augmentation techniques.
- Deployed a Flask-based web interface for real-time, self-service AI-powered classification from uploaded images.

EDUCATION

KIET Group of Institutions, Ghaziabad, Uttar Pradesh

Sep 2024 – Jul 2028

B.Tech in Computer Science and Engineering (Artificial Intelligence)

Indian Institute of Technology Madras (IITM)

BS in Data Science (Pursuing) | Foundation Completed | Currently in Diploma in Programming

CV International School, Agra

Class XII (CBSE) – 90% | Class X (CBSE) – 94%

CERTIFICATIONS

- AWS Certified ML Engineer – Associate; AWS Certified Data Engineer – Associate; AWS Certified Cloud Practitioner (Amazon Web Services); IITM Foundation Certificate (IIT Madras)