

SIKANDER PRAJAPATI

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PROFESSIONAL SUMMARY

Second-year B.E. student specializing in Artificial Intelligence and Machine Learning with practical hands-on experience building full-stack applications and AI-integrated systems. Proven ability to deliver functional prototypes under tight constraints, demonstrated by multiple hackathon achievements including qualifying for the Hackareana 2.0 National Grand Finale in Delhi, a Top 5 finish, and a Google Hackathon shortlisting. Proficient in backend development, API integration, and modern frontend frameworks, looking to contribute effectively within an agile engineering team as a Software Engineering or Full Stack/AI-ML Intern.

TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript, C, C++, HTML, CSS
- **Frameworks:** React, Node.js, FastAPI, Spring Boot, Streamlit
- **AI & Data:** Retrieval-Augmented Generation (RAG), Vector Databases (ChromaDB), LangGraph, LangChain, Scikit-learn, Ollama
- **Tools:** Docker, Git Version Control, GitHub, Twilio, n8n (Workflow Automation)
- **Concepts:** Full Stack Development, Backend Development, Frontend Development, REST APIs, API Integration, Database Design, Semantic Search, Authentication, Team Collaboration

PROJECTS

VitalGuard – AI Health Monitoring System | *Tech Stack: Python, LangGraph, Streamlit, Twilio, REST APIs, Git*

- **Problem:** Lack of automated, real-time communication pipelines during critical patient health anomalies.
- **Implementation:** Engineered an AI-powered health monitoring system utilizing LangGraph for multi-agent reasoning over continuous physiological data streams. Implemented automated multi-contact phone calls by integrating Twilio REST APIs to trigger immediate escalations when vital metrics cross critical thresholds.
- **Engineering Decisions:** Built a responsive live monitoring dashboard featuring secure role-based authentication to decouple clinician views from patient interfaces.
- **Impact:** Delivered a functional end-to-end prototype under a competitive timeline, securing a Top 10 finish in the Health Track out of 250 teams.

Offline RAG System – Document Q&A Platform | *Tech Stack: Python, FastAPI, ChromaDB, Ollama (Mistral 7B), React, Streamlit*

- **Problem:** Data privacy exposure and high token costs associated with cloud-hosted LLM document analysis.
- **Implementation:** Developed a modular, fully local Retrieval-Augmented Generation (RAG) backend utilizing FastAPI to parse, chunk, and index unstructured documents (PDFs/DOCX). Integrated ChromaDB as a local vector database to handle high-dimensional embeddings and execute precise semantic search.
- **Engineering Decisions:** Self-hosted Mistral 7B locally via Ollama to guarantee absolute data privacy with zero external API calls; designed a clean frontend interface for seamless multi-format document ingestion.
- **Impact:** Eliminated external data dependency and cloud processing fees while achieving real-time, source-cited conversational retrieval.

Eventsphere – Full Stack Event Management Platform | *Tech Stack: Node.js, React, Express, MongoDB, REST APIs, Git Version Control*

- **Problem:** Fragmented workflows for event handling, attendee ticketing verification, and administrative organization.
- **Implementation:** Conducted the full stack development of an event management ecosystem utilizing a modular architecture, strong database design principles, and comprehensive role-based workflows.
- **Engineering Decisions:** Designed and built secure REST APIs to manage continuous data fetching and incorporated cryptographic QR-code generation logic for instantaneous on-site ticket verification.
- **Impact:** Produced a highly scalable, production-ready system capable of processing real-time registration data and automated attendee dashboards.

Rx-Plain – AI-Powered Medical Report Analyzer | *Tech Stack: Python, NLP, Data Normalization, Streamlit*

- **Problem:** Complex, fragmented biomedical lab structures that prevent patients from understanding historical physiological data.
- **Implementation:** Wrote an asynchronous data ingestion and NLP pipeline to extract, parse, and normalize unstructured information from multi-format medical reports (PDFs, images, lab results).

- **Engineering Decisions:** Designed a centralized mapping layer that converts clinical lab metrics into patient-friendly explanations, organizing the parsed datasets into a chronological, longitudinal portfolio view.
- **Impact:** Developed an intuitive health timeline engine that transforms isolated medical check-ups into continuous historical health analytics.

HACKATHON EXPERIENCE

Hackareana 2.0 – National Grand Finale Qualifier (*Top 10, Mumbai Zone · Qualified for National Grand Finale, Delhi · Team: Sudo Win*)

- Advanced to the National Grand Finale of Hackareana 2.0 in Delhi as Team 'Sudo Win' — placed Top 10 in the Mumbai Zone qualifying round, as measured by selection from all competing regional teams across Maharashtra, by building and pitching a solution strong enough to outcompete local finalists and earn a national stage berth.

Health-Tech Hackathon (*Top 60 out of 250 teams · Top 10 in Health Track | Team Lead / Core Engineer*)

- Co-developed VitalGuard, translating a high-level health monitoring concept into a deployed software system handling simulated BLE sensor streams and automated emergency call alerts. Led team collaboration and architecture design.

Ignite IT 7.0 Hackathon (*Top 5 Finish | Full Stack Developer*)

- Collaborated within a 4-person team to architect, build, and deploy a completely working software prototype under a restrictive 24-hour deadline. Managed feature scoping and systematic Git version control workflows.

Google Hackathon (*Idea Shortlisted in Selection Round | Independent Ideator*)

- Designed an innovative technical blueprint focusing on system architectural efficiency and complex problem resolution. Successfully cleared initial competitive filters, getting the idea shortlisted in the highly competitive selection round.

EDUCATION

Thakur Shyamnarayan Engineering College – Mumbai, Maharashtra, India

Bachelor of Engineering (B.E.) in Artificial Intelligence & Machine Learning | **Expected Graduation: 2028**

- **Relevant Coursework:** Data Structures & Algorithms, Database Management Systems (DBMS), Machine Learning Fundamentals, Object-Oriented Programming (Java/C++)