

Siddh Patel

AI/ML Engineering Student · Backend Developer · RAG & LLM Systems

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SUMMARY

B.Tech (CSE — AI & Data Science) student with production experience building RAG pipelines, LLM-powered applications, and scalable server-side systems. Deployed a bilingual mental-wellness AI with 100+ active users and a computer-vision scoring platform serving 40–45 daily athletes. Certified by Stanford, NVIDIA, AWS, and Microsoft Azure. Seeking AI/ML or software engineering roles to apply machine learning, Python, and MLOps expertise at scale.

PROJECTS

Chitraksha — Mental Wellness AI for Indian College Students [Demo] [GitHub] Aug 2025 - Present

Groq Llama-3.1 · FAISS · MiniLM · Flask · Next.js · Docling · Docker

- Architected a production RAG pipeline — MiniLM embeddings over a 2,908-chunk FAISS index, Llama-3.1 generation on Groq — deployed live with 100+ active users and median query response under 2 seconds.
- Engineered a bilingual NLP pipeline (Hindi/Hinglish) with mood tracking and crisis detection; processed 500+ documents via Docling and Mistral OCR into a structured knowledge base.
- Presented to Parul University's wellness cell as a scalable first-layer support tool for 10,000+ enrolled students, complementing existing counseling infrastructure.

Eklavya — AI Scoring Platform for 10m Target Shooting [Live] Oct 2025 - Present

PyTorch · FastAPI · WebRTC · Celery · PostgreSQL · Redis · Docker

- Developed a PyTorch computer-vision model for real-time decimal-precision scoring of 10m Air Rifle and Pistol competitions via WebRTC, used by a shooting academy with 40–45 daily athletes.
- Designed PostgreSQL and NoSQL schemas for athlete performance analytics with Redis caching (sub-100ms responses); integrated Chitraksha's mental-conditioning engine for pre-competition readiness feedback.

Hibiscus — Hospital HR & Learning Management System Jan 2026 - Present

Django 5.2 · PostgreSQL 18 · Redis · Celery · Docker

- Built a full-stack Django enterprise system with role-based access control across 4 roles (Admin, HR, Manager, Employee), supporting bulk CSV and Excel attendance upload with server-side validation.
- Implemented asynchronous Celery and Redis email notification pipelines; containerized the full stack with Docker for consistent production deployment.

WORK EXPERIENCE

Backend Developer Intern — Mayflower Women's Hospital Jan 2026 - Apr 2026 · Ahmedabad

- Engineered a Django-based CRM and HR system managing 1,500+ employee records with PostgreSQL, role-based access control, and REST APIs for bulk CSV attendance upload.
- Optimized server-side performance with Celery and Redis async email notifications and background task processing.
- Containerized the full deployment stack with Docker, reducing environment setup time by 60% and improving release consistency across development and production.

TECHNICAL SKILLS

Languages	Python, Java, JavaScript, Node.js, SQL, HTML/CSS
AI / ML	PyTorch, TensorFlow, HuggingFace Transformers, Scikit-learn, Deep Learning, NLP, LLM Fine-tuning, Embedding Models
ML Systems	RAG Pipelines, Vector Databases (FAISS, pgvector), OCR (Docling, Mistral OCR), HuggingFace Datasets
Backend	FastAPI, Django, Flask, REST APIs, Celery, Redis, WebRTC
Databases	PostgreSQL, MySQL, SQLite, MongoDB
DevOps / Tools	Docker, Git, GitHub Actions, AWS, Microsoft Azure, Vercel, HuggingFace Spaces

EDUCATION

Parul University, Vadodara — B.Tech, Computer Science & Engineering (AI & Data Science) · CGPA 7.39/10 2023 - 2027 (expected)

CERTIFICATIONS & ACHIEVEMENTS

Machine Learning Specialization (Stanford Online) · ML Fundamentals (Duke) · Generative AI in Practice (NVIDIA) · ML Foundations (AWS Educate) · AI Fundamentals (Microsoft Azure)

NCC Cadet Leader — National Cadet Corps, Parul University (2023–2025). Led cadet activities: discipline, team leadership, organizational coordination.