MEET PATEL

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Summary

Bachelor of Technology in Information Technology student at G H Patel College of Engineering Technology, Charutar Vidya Mandal University, with a CGPA of 8.19/10.00. Currently working as a Software / AI Intern at ISRO, where I focus on optimizing offline Retrieval-Augmented Generation (RAG) systems and integrating knowledge graph workflows with Neo4j for secure and efficient information retrieval. Completed the CS50 Python certificate and contributed to the OpenClaude open-source repository through pull requests. Building QueryRAG, a RAG-as-a-Service platform designed to support different types of projects with scalable, modular retrieval and generation workflows.

Education

G H Patel College of Engineering & Technology, Charutar Vidya Mandal University **2023– Present**
Bachelor of Technology in Information Technology *Anand, Gujarat*
CGPA: 8.19/10.00

Technical Skills

Languages: Python, C
Backend & AI Frameworks: FastAPI, SQLite, LangChain, LlamaIndex, MCP (Model Context Protocol)
AI / GenAI: LLMs, Agent Orchestration, Retrieval Workflows
Tools: Linux, Git, Docker, Redis, N8N, Vector DBs, v0, OpenCode

Experience

ISRO (Indian Space Research Organisation) **May 2026 – Present**
Software / AI Intern

- Working on developing an offline Retrieval-Augmented Generation (RAG) system for secure and efficient information retrieval in constrained environments.
- Optimizing document preprocessing, chunking, and indexing pipelines to reduce latency and improve retrieval efficiency in offline RAG systems.
- Integrating Qdrant and Neo4j workflows to strengthen semantic retrieval, contextual reasoning, and relationship-based querying.

Projects

QueryRAG **March 2026 – Present**

- Building an open-source RAG-as-a-Service platform to enable scalable vector search and chat workflows across diverse data sources.
- Developed multi-source knowledge ingestion pipelines with configurable chunking and embedding strategies to support accurate and scalable retrieval workflows.
- Optimized document ingestion, chunking, and embedding workflows to improve retrieval quality and reduce processing overhead.
- Implemented API-first RAG endpoints with configurable streaming responses, background processing, and hybrid vector filtering for low-latency query execution.
- Integrated PostHog analytics, request-level tracing, and Redis-backed rate limiting to improve observability, debugging, and API reliability.
- **Technologies:** Next.js, Supabase, Bun, Upstash, Tailwind CSS, TypeScript, PostHog, Redis

AI Assistant Platform - Winner, Nosu AI Hackathon [GitHub] **January 2025**

- Built an AI assistant platform supporting chat, PDF document analysis, and YouTube video summarization.
- Designed a FastAPI backend and agent workflows using LangFlow with transcript ingestion and long-context handling via chunking.
- Focused on system reliability and performance through structured agent orchestration and optimized request handling.
- **Technologies:** FastAPI, LangFlow, LLMs

Certifications & Open Source

CS50 Python Certificate
Completed

- Completed the CS50 Python certificate with hands-on programming practice and problem-solving work.