

Samarth Patel

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github.com/samarthpatel24

Technical Skills

- **Languages & Scripting:** Python, SQL, JavaScript, TypeScript, Shell Scripting
- **AI/LLM Frameworks:** LangChain, DSPy, Anthropic SDK, OpenAI SDK, LLM APIs (Anthropic, OpenAI, Gemini)
- **AI/ML Concepts:** LLMs, RAG, Embeddings, Prompt Engineering, Fine-tuning, Agentic AI & Tool-Use Workflows, Text Generation, Summarization, Classification, NLP
- **Backend & Frontend:** FastAPI, Node.js, Express, React, Next.js, Tailwind CSS, RESTful APIs, Async Programming
- **Databases & Vector Stores:** PostgreSQL, MongoDB, FAISS, Pinecone, Kafka
- **Cloud & MLOps:** AWS (EKS, Bedrock, Textract, IAM, VPC), Docker, Kubernetes, Linux, MLflow
- **Tools & Platforms:** Git, JIRA, Postman, VS Code, GitHub Actions, GitLab CI/CD

Education

Bachelor of Technology – Artificial Intelligence & Machine Learning Aug 2022 – Present
Symbiosis Institute of Technology, Pune
Current CGPA: 7.25 / 10

Experience

AI Engineer (Graduate Engineer Trainee) Jul 2026 – Present
Futurecraft

AI Engineer Intern · Futurecraft Dec 2025 – Jun 2026

- Designed and shipped **AI-powered product features** as a **multi-agent system** with 3 specialized agents – Document Parsing (AWS Textract), Document Generation, and Reasonableness Check (valuation QA/classification) – delivering autonomous reasoning and **tool-use workflows** in production
- Built **prompt engineering pipelines** with DSPy for text generation, summarization, and classification; monitored AI outputs and iterated on **evaluation metrics** to improve reliability
- Deployed agent microservices on **AWS EKS** with Kubernetes (IAM, VPC, auto-scaling) and established **LLMOps** practices for reliable AI delivery
- Ran **CI/CD pipelines** (GitLab) with Kafka-based event streaming for async agent orchestration; scoped and coordinated releases with product and backend teams via Jira sprint ceremonies
- **Tech Stack:** Python, FastAPI, DSPy, AWS EKS, Kubernetes, Docker, PostgreSQL, GitLab CI/CD, Kafka, Linux

Projects

LLM-Powered Intelligent Query-Retrieval System samarthpatel24/LLM

- Architected a production-grade **RAG pipeline** that ingests PDFs, generates **vector embeddings** via FlagEmbedding, and performs **semantic retrieval** through FAISS with grounded generation via LLM APIs – Bajaj HackRX (Top 80)
- Implemented token-based auth, document caching, and **hallucination mitigation** via context-grounded prompt engineering, with health monitoring and OpenAPI docs
- Tools Used: Python, FastAPI, Gemini, FAISS, FlagEmbedding, Prompt Engineering

ClearQuill – AI-Generated Text Detection System samarthpatel24/ClearQuill

- Built a **local-first AI writing assistant** that humanizes AI-generated text, corrects grammar, and detects AI fingerprints – running on-device with open-source LLMs (GGUF via llama.cpp) with GPU/VRAM auto-detection and per-task model routing
- **Fine-tuned ModernBERT** on the **RAID benchmark** for sentence-level AI-text **classification**, scoring comparable to top-10 leaderboard entries
- Tools Used: Next.js, React, TypeScript, FastAPI, Python, llama.cpp, ModernBERT, HuggingFace Hub

Git-Scout – GitHub Repository Discovery Tool Live · GitHub

- Built a data-driven discovery platform with **15+ filters**, repo-health scoring, and GitHub REST API integration with rate-limit handling and infinite scroll; deployed on Vercel
- Tools Used: Next.js, TypeScript, Tailwind CSS, GitHub REST API, Vercel

Open Source & Hackathons

- **files.md** (3.1k+ stars) – Privacy-first markdown note-taking app (Go). Contributed 2 merged PRs: fixed an IME composition bug causing incomplete messages, and corrected a panic handler logging the wrong variable
- **Hackathons:** HackRX 6.0 (Top 80) · Amazon ML Challenge (Top 100) · Datathon by CCOEW (Top 20) · TensorCraft (Finalist)