

Samarth Patel

Pune, Maharashtra | samarhbrijeshpatel@gmail.com | +91 7043571380 | linkedin.com/in/samarthpatel24
github.com/samarthpatel24

About Me

AI & ML B.Tech student with a strong foundation in Python, C, and JavaScript. Experienced in developing projects using NLP, Computer Vision, and Generative AI techniques. Passionate about building intelligent, data-driven applications, with hands-on work in sentiment analysis, GANs, and full-stack development using tools like TensorFlow, ReactJS, and Seaborn

Technical Skills

- **Languages:** Python, C, Java, JavaScript
- **Databases:** SQL, MongoDB, PostgreSQL
- **Frameworks & Tools:** FastAPI, Flask, ReactJS, Docker, Git, GitLab CI/CD, TensorFlow, Keras, OpenCV
- **Cloud & Infra:** AWS (EKS, Textract, IAM, VPC), Kubernetes, Docker
- **AI/ML:** LLMs, DSPy, RAG, NLP, Computer Vision, Generative AI, Data Visualization

Education

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

Experience

AI Intern Dec 2025 – Present
Futurecraft

- Built production-ready AI agents for the **Core** Asset Tokenization Platform — Document Parsing (AWS Textract OCR), Document Generation (Jinja2 legal engine with blockchain hash recording), and Reasonableness Check (valuation QA with confidence scoring and anomaly detection)
- Integrated **DSPy** into the GYCO AI Chatbot, replacing manual prompts with declarative optimisable pipelines using ChainOfThought signatures for KPI summarisation and trend analysis
- Deployed and orchestrated AI agent microservices on **AWS EKS** and Kubernetes; configured IAM, VPC networking, auto-scaling, and performed distributed pod log analysis for production debugging
- **Tech Stack:** Python, FastAPI, DSPy, AWS Textract, AWS EKS, Kubernetes, Docker, PostgreSQL, GitLab CI/CD, Qwen3 14B

Projects

LLM-Powered Intelligent Query-Retrieval System samarthpatel24/LLM

- Built an AI-powered document intelligence system using RAG architecture with Python, FastAPI, and Google Generative AI that processes PDF documents and delivers contextually accurate answers through vector embeddings and FAISS similarity search
- Implemented enterprise-level features including bearer token authentication, intelligent caching mechanisms, automated document processing pipelines, and real-time health monitoring with comprehensive API documentation for the Bajaj HackRX hackathon
- Tools Used: Python, FastAPI, Google Generative AI (Gemini), FAISS, FlagEmbedding

RetireWise - AI Pension Platform samarthpatel24/Retirewise

- Developed an AI-powered pension management platform with real-time chatbot integration, Monte Carlo simulations, and interactive analytics enabling advisors to provide data-driven retirement planning recommendations.

- Built sophisticated what-if scenario analysis tools with stress testing, portfolio optimization algorithms, and role-based access control processing complex financial calculations and market volatility assessments.
- Tools Used: Next.js, Node.js, PostgreSQL, React, LLM Integration (Mistral/LLaVA), Plotly.js, NextAuth,

AnimeGAN with Emotion Control

samarthpatel24/GAN_Project

- Developed a GAN based Model to transform realistic human faces into anime styled characters
- Utilized e4e Encoder and StyleGAN2 Decoder to enable intensity based emotion control
- Tools Used: Python, PyTorch, Torchvision, StyleGAN2, AnimeGANv2

Certifications and Participations

- **Certifications:** IBM Python 101 for Data Science , Big Data 101
- **Hackathons:** Hackrx 6.0 (Top 80), AmazonML Challenge (Top 100), Datathon by CCOEW (Top 20), TensorCraft (Finalist), ByteVerse 7.0