



Axit Patel

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ABOUT MYSELF

Backend-focused computer applications graduate specializing in **applied AI systems**, including **LLM-powered chatbots, retrieval-augmented generation (RAG) pipelines, and intelligent automation workflows**. Experienced in building and deploying real-world machine learning applications using Python, modern AI frameworks, and scalable backend infrastructure. Strong interest in production-ready AI engineering and intelligent system design.

EDUCATION & TRAINING

Bachelor in Computer Application

Natubhai V. Patel College of Pure & Applied Sciences [25/01/2022 - 16/05/2025]

City: Anand, Gujarat | **Country:** India

Final grade: 9.13

LANGUAGE SKILLS

Mother tongue(s): Gujarati | Hindi

Other language(s): German | English

SKILLS

Backend & Systems

SQL | Python | Django | Flask | MongoDB | PostgreSQL | MySql | Sqlite

Frontend

Next JS | HTML | Bootstrap | JavaScript | CSS

DevOps & Development

Docker | GitHub | Git | Vercel | Hostinger | Linux | Podman

Machine Learning & AI

Machine Learning | Deep Learning | LLM & Applied AI | Huggingface transformers | FAISS

PROJECTS

Cash School — Full-Stack EdTech & Community Platform Full-stack Django platform with authentication and role-based access

- Implemented course monetization, payouts, ads, and real-time chat
- Tech: Django, HTML/CSS/JS, PostgreSQL

Link: <https://github.com/axitpatel1310/Cashskool-django>

Pattern-Based Chatbot with PDF Generation & Image Editing Solo project built with Flask, Python, HTML, CSS, JavaScript

- JSONL-driven chatbot for rule-based query recognition and responses
- Implemented on-demand PDF generation using ReportLab via text commands
- Integrated image editing features (crop, rotate, brightness, contrast) using Pillow
- Developed responsive UI with file upload/download and real-time previews
- Implemented secure Flask backend for request handling and file delivery

Link: <https://github.com/axitpatel1310/advance-chat-bot-flask>

Computer Vision Based Fitness Coach Developed a **computer vision-based AI fitness coach** using MediaPipe pose estimation integrated with a Flask backend to analyze multiple full-body image input and generate personalized weekly workout plans tailored to individual strength and goals; deployed as a web application

PDF Chat Bot • LLM-based PDF question-answering system using FAISS vector search

- Implemented embedding-based retrieval and contextual answer generation
- Tech: Python, FAISS, PyPDF2, Hugging Face

Link: <https://youtu.be/9IMX15ikRyE?si=EACtsq9AszoEW2cB>

CREATIVE WORKS

- Published *Python for Beginners* course on Udemy
- Content Creation (@kernx.ai Instagram)

Link: <https://www.instagram.com/kernx.ai/>

- Built a platform to document and share startup failure stories with analysis and insights to help tech founders learn from real examples.
- Developed using Next.js and deployed on Vercel.

Link: <https://startupsgraveyard.vercel.app/>