Harshil Khatri

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https://github.com/Harshilk2799

Education

Government Engineering College **Aug. 2017 − July 2020**
Bachelor of engineering in Information Technology *Modasa, Gujarat*

Government Polytechnic **Aug. 2014 − May 2017**
Diploma in Information Technology *Ahmedabad, Gujarat*

Experience

TXLabs **Dec 2022 − Jan 2026**
Software Engineer Fullstack (Python) *Ahmedabad, Gujarat*
- **Designed and developed an AI-powered RAG chatbot platform** using **React, Django/DRF, OpenAI API, LangChain, and Milvus, and Docker** enabling websites to deliver accurate, context-aware responses from unstructured data at scale.
- **Built a scalable knowledge ingestion and vectorization pipeline** supporting **PDFs, DOCX, images (OCR), and web URLs,** converting content into embeddings stored in **Milvus** to significantly improve semantic search accuracy and response relevance.
- **Implemented a fully customizable and embeddable chatbot system,** allowing configuration of **greetings, avatars, themes, and UI behavior,** enabling seamless brand integration across multiple client websites.
- **Engineered robust web scraping and backend reliability solutions** using **Requests, BeautifulSoup, Selenium, and Scrapy**, ensuring stable data extraction from static and dynamic sources and maintaining high system availability.

iExplicit Technologies **July 2021 − Nov 2022**
Jr. Python Developer *Ahmedabad, Gujarat*
- I am responsible for implementing the **MVT architecture** in developing the web application with the help of **Django Framework**.
- Collaborated with quality assurance team to verify correct implementation of software changes.
- I am responsible for **debugging and troubleshooting** programming-related issues.
- Write clean, maintainable, and efficient code.
- Responsible for diagnosing, debugging, and resolving complex programming issues to ensure stable and high-performing applications.

Projects

AI Gym Workout and Diet Planner | *Python, Django, DRF, React, React-router-dom, LLM Github* **Dec 2025**
- Built an AI-powered fitness app using LangChain + Gemini to address the problem of generic, one-size-fits-all fitness plans.
- The system collects personal fitness data and generates customized workout and diet plans tailored to individual goals and preferences.
- Enabled real-time plan updates with full CRUD support, ensuring adaptability as user data changes.

HR Resume Agency | *Python, Django, Javascript* **Jan 2024**
- The candidate fills out a form with all the information, including personal details, resume, qualifications, skills, and experience. HR can then shortlist candidates based on requirements, and HR communicates directly with the shortlisted candidates through chat messages.

Technical Skills

Front-end:: HTML5, CSS3, Javascript, Bootstrap5, Reactjs, React Router v6, Axios
Back-end: Python, Django, Django REST Framework, Scrapy, Langchain, LangGraph, Langsmith
Tools: Git/Github, Postman
Libraries: BeautifulSoup, Selenium, Celery, Django-Channels
Web Server: Apache
Database: MySQL, PostgreSQL
LLM Models: OpenAI, Gemini, Claude, Huggingface Open Source Models, Ollama
Vector Database: FAISS, Chroma, Qdrant, Weaviate, Milvus, Pinecone

Certifications

Advanced Web Scraping with Python using Scrapy Splash
Scrapy: Powerful Web Scraping Crawling with Python
Django Celery Mastery: Python Asynchronous Task Processing
React Mastery Course