

Harsh Jambukiya

AI/ML Engineer | Python Developer

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[🐙 github.com/HarshJambukiya](https://github.com/HarshJambukiya)

M.Tech Computer Engineering student specializing in AI/ML engineering and Python development. Experienced in building multi-agent systems, RAG pipelines, REST APIs, and LLM-powered applications using real-world datasets. Skilled in Python, OOP, FastAPI, LangChain, vector databases, and backend development with strong problem-solving and collaborative abilities.

SKILLS

Languages — Python | SQL

AI / ML — Scikit-learn | TensorFlow | HuggingFace | BERTScore | ROUGE

LLM & Agents — LangChain | Groq API | Multi-Agent Systems | RAG Pipelines | ChromaDB | Prompt Engineering

Data — Pandas | NumPy | Data Preprocessing | Data Cleaning

Backend — FastAPI | REST API Development | OOP

Databases — AstraDB | Vector DB | MySQL

Tools — Git | Docker | GitHub | Google Colab | Ngrok

PROJECT

IndiGo Airlines AI Customer Service Chatbot, Multi-Agent System | RAG | FastAPI | Groq | ChromaDB

- Built a production-grade multi-agent AI customer service system with 6 specialized agents (Triage, FAQ, Booking, Baggage, Handoff, Resume) using Groq's Llama3-70B for ultra-fast inference
- Implemented RAG pipeline over airline policy documents using ChromaDB and sentence-transformers (all-MiniLM-L6-v2) with persistent vector storage on Google Drive
- Developed smart agent routing with state passing, multi-turn chat memory, resume parsing via PyMuPDF, and human handoff escalation simulation
- Deployed backend via FastAPI on Google Colab (free T4 GPU) with ngrok tunneling; orchestrated workflows using n8n cloud

Personalized Text Summarization using NLP & ML, M.Tech Research Work

- Implemented a 3-stage personalization framework (Length → Tone → Aspect) using Llama 3.3 70B via Groq API across MACSum, PERCS, and WikiAsp datasets
- Evaluated using BERTScore, ROUGE, and Flesch-Kincaid metrics comparing sequential pipeline vs unified prompt approaches

PDF Q&A System using RAG

- Built a modular Python-based document Q&A system using LangChain, AstraDB vector database, and Groq API, applying OOP principles for maintainable and scalable code
- Implemented RAG pipeline for context-aware question answering with efficient document chunking and semantic retrieval

Movie Recommendation System

- Developed a Python-based content-based filtering engine using CountVectorizer and cosine similarity across genre, cast, and keyword features
- Deployed an interactive real-time UI using Streamlit for personalized movie recommendations

WORK EXPERIENCE

.Net Developer, Pravik IT Solutions

10/2023 – 06/2024

- Developed and deployed REST APIs using .NET Core for an EdTech platform, handling student data management, API integration, and automated backend testing
- Collaborated with frontend teams to integrate backend services, participated in code reviews, and followed agile sprint cycles to deliver modules on schedule

Ahmedabad

Angular Developer, Vedikin Solutions

05/2023 – 09/2023

- Built client-facing dashboards using Angular for a cloud data migration platform, coordinating with clients and backend teams for secure data transfer
- Documented API integration workflows and component behavior to support team onboarding and future maintenance

Gandhinagar

EDUCATION

M.Tech in Computer Engineering, Dharmasinh Desai University (DDU), Nadiad, Gujarat

09/2024 – 05/2026

6.79 CPI Thesis

Nadiad, Gujarat

- Personalized Text Summarization Using Large Language Models (LLMs)

Bachelors in Computer Engineering, LDRP Institute of Technology and Research, Gandhinagar, Gujarat

05/2019 – 09/2023

6.84 CPI

Gandhinagar, Gujarat

HSC, Swaminarayan Gurukul Rajkot Sansthan, Gujarat

03/2017 – 03/2019

67.66 %

Rajkot, Gujarat

SSC, Mithapur High School

06/2016 – 03/2017

65.66 %

Mithapur, Gujarat

CERTIFICATES

NCC 'A' Certificate Naval Wing (Ministry of Defence)

AI Engineering Masterclass: From Zero to AI Hero (Udemy)

NumPy Programming Mastery  (Udemy)

Python Programming for Beginners  (Udemy)