

KUSHRAJSINH ZALA – Resume

Location: Ahmedabad, Gujarat

Email: kushrajsinh24@gmail.com

Phone: +91-9725360942 (Available for calls between 9 AM – 6 PM)

GitHub: <https://github.com/KUSHRAJSINH>

LinkedIn: <https://linkedin.com/in/kushrajsinh-zala-b95650235>

Professional Summary

AI/ML Engineer with a robust background in Large Language Models (LLMs), RAG architecture, and Generative AI applications. Skilled in building real-world solutions using LangGraph, LangChain, Transformers, and vector-based retrieval systems. Proven ability to integrate LLMs into web applications using Python, Streamlit, and Django. Completed impactful internships at Petpooja and Zidio Development, delivering intelligent systems including personalized assistants, recommender systems, and chatbots. Passionate about creating production-ready, scalable AI tools.

Education

Bachelor of Engineering – AIML

L.J. Institute of Engineering and Technology

Gujarat Technological University

CGPA Summary:

Semester 1: 5.94 Semester 2: 5.27

Semester 3: 5.92 Semester 4: 5.44

Semester 5: 5.86 Semester 6: 7.45

Semester 7: 6.50 Semester 8: 8.53

Overall CGPA: 6.24 / 10

10th & 12th (Science, Group A):

Brahmanand Vidhyalaya, Dhrangadhra – 80% (Both)

Experience

Data Science Intern – Petpooja (Apr 2025 – Present)

- Gained hands-on experience with advanced AI frameworks including LangChain and LangGraph, focusing on Generative AI and agentic workflows
- Explored and analyzed Petpooja's internal model pipelines, enhancing understanding of real-world production AI systems

- Studied end-to-end deep learning workflows and model deployment strategies used in large-scale platforms
- Strengthened skills in designing and building scalable AI models aligned with real business use cases

Data Science Intern – Zidio Development (Oct 2024 – Dec 2024)

- Worked on customer segmentation and clustering algorithms using K-Means and visualization libraries
- Performed EDA, handled large CSVs, and derived insights for data-driven decisions
- Built predictive scripts and assisted in ML evaluation for early-stage prototypes

Projects

RAG-Based Document Chatbot

Built a document-aware chatbot using LangChain, FAISS, and Groq's LLaMA 3. Enabled PDF upload and chunking, embedded with HuggingFace BGE embeddings, and performed semantic retrieval and QA via Streamlit UI. Demonstrated mastery in retrieval pipelines, contextual LLM responses, and vector DBs.

LangGraph ChatFlow with Memory Retention System

Created a multi-threaded assistant using LangGraph and Gemini 1.5 Flash, with SQLite-based memory checkpointing. Integrated dynamic thread naming and multi-turn memory for rich conversations. UI built in Streamlit.

AI-Powered Smart Kitchen & Waste Minimizer for Restaurants

Built an intelligent kitchen assistant that identifies expiring ingredients and recommends personalized recipes, leveraging Python, Pandas, and Google Gemini API.

Portfolio Personal Assistant Chatbot

Deployed an AI assistant on portfolio website using LangChain, enabling real-time answers to questions about CV, education, and experience. Hosted on Streamlit with static embedding and query filtering.

Handwritten Digit Recognition

Built a CNN-based deep learning model for digit classification using MNIST dataset. Applied dropout, batch normalization, and ReLU. Accuracy >98%.

Blog API with Django

RESTful blog API with CRUD, JWT-based auth, and pagination. Designed with scalable architecture and secure endpoints.

To-Do List Web App

Django-based task app with user login, dynamic task filtering, and full CRUD. Built using Bootstrap UI.

Employee Leave Management System

OOP-based web app using Flask/Django with PostgreSQL. Supports leave request, approval, and status tracking.

Skills

Languages: Python, JavaScript, TypeScript, Java

LLM & AI Frameworks: LangChain, LangGraph, Transformers, RAG, HuggingFace, FAISS, OpenAI, Gemini, Groq

AI Tools: ChatGPT, Gemini, GitHub Copilot, Perplexity AI

Frontend: React.js, Next.js, HTML5, CSS3, Tailwind, Bootstrap

Backend: Django, Flask, RESTful APIs

Databases: PostgreSQL, MongoDB, SQLite, SQL

Dev Tools: Streamlit, Git, GitHub, Power BI, VS Code

Certifications

- Machine Learning (Coursera)
- Generative AI (Coursera)
- Python Programming (Coursera)
- C Programming (Coursera)
- Machine Learning with Python – IBM
- Building Generative AI-Powered Applications with Python – IBM
- Back-End Development with .NET – Microsoft
- Data Structures – University of California, Santa Cruz
- HTML, CSS, and Javascript for Web Developers – Johns Hopkins University
- C for Everyone: Programming Fundamentals – University of California, Santa Cruz
- Algorithmic Thinking – Rice University

Social Links

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