

KUSHRAJSINH ZALA – Resume

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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 (May 2025 – Present)

- Built a Movie Recommendation System using NeuMF and Word2Vec embeddings
- Created deep learning pipelines and evaluated model accuracy across various recommendation strategies
- Authored and submitted a complete internship report covering system design and performance

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 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.

Sathii Chatbot

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.

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)

Social Links

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