Himanshu Parihar

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Experience

HiVoco Content-Tech Studios

Nov 2023 - Present

ML Engineer — OpenAI, LangChain, Vector DBs, AWS

Delhi. India

- Developed **RAG-based applications**, including a **saffron-related chatbot** and a **research paper assistant**, leveraging **LangChain**, **OpenAI**, **and vector databases** to improve query resolution and content understanding.
- Built a voice-to-voice AI assistant for customer support, integrating STT, TTS, and RAG using OpenAI and open-source LLMs, reducing LLM costs by **50%** while maintaining high response accuracy.
- Engineered a scalable voice-based quiz campaign serving 500,000+ users, optimizing performance with Groq API, Flask, and FassiDB.
- Led the development of "Closeup Love Tune", a personalized video generation platform for Valentine's Day, utilizing audio and video synthesis techniques.
- Currently working on "Razer Sharp", a video and audio analytics platform for QSRs and retail, leveraging computer vision and NLP to extract business insights.
- Designed CI/CD pipelines using GitHub Actions, deployed applications on AWS (EC2, ECR, S3), and managed scalable databases (MySQL, MongoDB).

Projects

Voice-to-Voice AI Assistant (STT → RAG → TTS) | Python (Flask), OpenAI, LangChain, Vector DB, Groa API

Github

- Developed an interactive voice assistant that processes speech input, retrieves relevant responses via **RAG**, and generates natural voice replies using TTS.
- Integrated OpenAI, Groq API, and vector databases for accurate contextual understanding.
- Enabled customizable backends, allowing seamless integration with different speech APIs and LLMs.
- Deployed on AWS EC2, ensuring scalability and availability for real-time interactions

Chatbot for Webpage | Python, Flask, FAISS, HuggingFace, Chrome Extension

Github

- Developed a Chrome extension that enables users to interact with any webpage via a chatbot.
- Implemented automated web scraping to extract and preprocess text from URLs.
- Used HuggingFace embeddings and FAISS for efficient vector-based search.
- Built a REST API for querying webpage content in natural language.

Technical Skills

Programming Languages: Python, SQL

Data Validation and Processing: Pydantic, Pandas, NumPy

Databases: SQL, NoSQL, Vector DBs (FAISS, Pinecone, ChromaDB, FassiDB)

Version Control: Git, GitHub

Cloud and Deployment: AWS (EC2, S3, ECR, RDS), Docker, GitHub Actions Frameworks and Libraries: LangChain, OpenCV, PyTorch, Scikit-learn, flask

LLMs and RAG: OpenAI API, Groq API, Custom Retrieval Augmented Generation Pipelines

Certifications

- HackerRank Advanced SQL Certification
- Data Science Certification

Education