

Piyush Sharma - Generative AI Engineer

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Professional Summary

Generative AI Engineer with 1.5 years of experience designing and implementing intelligent AI applications using Large Language Models (LLMs), LangChain, and Transformer architectures. Skilled in RAG pipelines, Hugging Face Transformers, Prompt Engineering, FAISS vector databases, and LLM fine-tuning for real-world text understanding and conversational systems. Experienced in building and deploying AI apps with Python, Streamlit, and FastAPI.

Experience

Accenture Pvt. Ltd. | Generative AI Engineer | Jun 2023 - Present | Hyderabad, India

- Designed and deployed RAG-based document intelligence systems using LangChain, FAISS, and OpenAI embeddings.
- Developed LLM-powered conversational AI assistants for summarization and contextual chat.
- Built Streamlit-based dashboards for interactive GenAI applications.
- Integrated Hugging Face Transformers for summarization and embedding tasks.
- Deployed LLM-based APIs using FastAPI and Docker.
- Reduced human data retrieval effort by 85% using AI-powered search systems.

Projects

RAG-based AI Knowledge Assistant | LangChain, FAISS, OpenAI, Python, Streamlit

- Implemented a document chat system using RAG and embeddings for contextual Q&A.

AI-Powered Document Summarizer | Hugging Face, Python, Streamlit

- Created summarization system using BART and T5 transformer models with adaptive prompts.

Conversational LLM API Service | FastAPI, LangChain, OpenAI API, Docker

- Developed REST APIs for multi-turn dialogue management and prompt pipelines.

Text Embedding Search System | FAISS, Sentence Transformers, OpenAI

- Built semantic search engine using vector-based retrieval for instant lookup.

Technical Skills

Programming: Python, SQL, Git

AI/ML Frameworks: PyTorch, TensorFlow, Scikit-learn, Hugging Face

Generative AI Tools: LangChain, FAISS, ChromaDB, OpenAI API, Ollama

NLP: Tokenization, Lemmatization, TF-IDF, Word2Vec, Transformers, RAG

Deployment: Streamlit, FastAPI, Docker, Render

Education

Bachelor's in Computer Science and Artificial Intelligence

Loyola Academy Degree & PG College, Hyderabad (2024)

GPA: 9.13 / 10

Certifications

- Generative AI with LangChain and Hugging Face - Udemy (2025)
- Fine-tuning LLMs with Hugging Face Transformers - Coursera
- Python for Data Science - NPTEL