

# SHIVA PRASAD NAROJU

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## Summary

**Generative AI Engineer** with hands-on expertise in advanced **RAG pipelines**, AI agents, and production-ready GenAI applications. Skilled in **LLMs**, semantic search, and vector databases (LangChain, LangGraph, CrewAI). Optimized RAG workflows to reduce hallucinations and boost domain accuracy, with deployment experience using **Docker**.

## Experience

### AI Developer Intern – Viswam AI (Open-Source)

May 2025 – July 2025

- Contributed to Telugu LLM development through cultural data collection and corpus building.
- Designed a RAG-powered web app to crowdsource Vaasthu knowledge while providing real-time AI guidance, improving domain adaptation and cultural alignment.

## Projects

### Vaasthu Vision AI – Domain-Specific RAG System

[\(GitHub\)](#)

- Built a domain-specific **GenAI chatbot** using LangChain RAG, Qdrant, and Groq LLaMA3-8B on 350+ cross-verified Vaasthu Shastra rules, reducing hallucinations via query routing. Benchmarked using RAGAS (Faithfulness 0.95, relevancy 0.8).
- Integrated a **FastAPI** backend with a custom frontend and **Docker** for seamless real-time deployment and user interaction.

### Corrective RAG – Self-Improving RAG Pipeline

[\(GitHub\)](#)

- Engineered a **multi-agent** Corrective RAG workflow with document grading, query rewriting, and web-search integration for context-aware answers.
- Implemented using LangGraph, LangChain, FAISS, HuggingFace embeddings, Groq LLaMA 3.1 and containerized with **Docker**.

### Multi-Agent AI Blog Generation System

[\(GitHub\)](#)

- Developed a CrewAI-powered **multi-agent** system (Planner, Writer, Editor) to autonomously generate and refine blogs.
- Delivered SEO-optimized content in Markdown & HTML using LangChain and Groq LLMs with structured agent orchestration.

## Technical Skills

**Languages:** Python, SQL

**Generative AI:** LangChain, LangGraph, CrewAI, RAG (Traditional, Corrective, Agentic, Adaptive, Graph RAG), LLM evaluation (RAGAS), LangSmith

**Machine Learning & DL:** Supervised & unsupervised learning, ANN, CNN, RNN, LSTM, Transformers, Scikit-learn, TensorFlow

**Vector & Retrieval:** FAISS, Qdrant, ChromaDB, Neo4j, embeddings, semantic & hybrid search

**LLMs & NLP:** OpenAI, Groq, LLaMA, HuggingFace Transformers, prompt engineering, hallucination mitigation, fine-tuning LLMs

**Dev & MLOps:** FastAPI, Docker, Git/GitHub, MLflow, CI/CD (GitHub Actions)

**Data & Analytics:** Pandas, NumPy, Matplotlib, Seaborn, EDA

Trainings & Certifications

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- Data Science, ML, DL, NLP** – Krish Naik (Udemy) – May 2025 – Aug 2025

(Certificate)

– End-to-end training on EDA, feature engineering, and model optimization; hands-on with ANN, CNN, RNN, LSTM, Transformers, LLMs, NLP pipelines & Generative AI.
- Core ML & MLOps** – Antern Data Solutions – Nov 2024 – Apr 2025

(Certificate)

– Built end-to-end ML pipelines covering supervised/unsupervised learning, evaluation metrics, and model deployment.
- Multi-Agent Systems Bootcamp (CrewAI)** – DeepLearning.AI – 2025

(Certificate)

– Learned AI agent orchestration, task routing, and collaborative multi-agent workflows.
- Python** – QSpiders, Hyderabad – May 2024 – Oct 2024

– Python & SQL fundamentals, OOP, and querying.

Education

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- B. Tech in Civil Engineering**

2021 – 2024

*TKR College of Engineering and Technology, Hyderabad*
- Diploma in Civil Engineering**

2018 – 2021

*TKR College of Engineering and Technology, Hyderabad*

Leadership & Activities

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- Hackathon Participation** – Competed in EvolveX Hackathon, applying AI and ML skills to real-world problems.
- Startup & Tech Meetups** – Attend weekly Hyderabad tech meetups to stay updated on emerging startup technologies.
- Workshops & Bootcamps** – Regularly participate in AI, ML, and GenAI workshops for continuous learning and skill development.
- Head of Media** for Student Tribe community at TKR College – Jul 2023 – May 2024: Managed social media, promoted workshops and events, and facilitated student networking.