

Panchangam Rohith

Anantapur, Andhra Pradesh, India

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github.com/prohith8074

SKILLS

Languages: Python, SQL, NoSQL

Technical Skills: Data Structures, Machine Learning.

Developer Tools: Mysql, VS Code.

Soft Skills: Teamwork, Team lead.

System Design: Basics

PROJECTS

Role-Based RAG Assistant | Codebasics GenAI Challenge

July 2025

Developed a Role-Based Retrieval-Augmented Generation (RAG) system that delivers secure, role-specific insights across six organizational departments. The application dynamically routes user queries through multiple vector databases and large language models, while maintaining persistent memory and enforcing strict access control. Automated evaluation ensures enterprise-grade accuracy and reliability of responses.

Tech Stack: Python 3.11, Streamlit, LangGraph, Milvus, Qdrant, Pinecone, GPT-4o, Gemini 2.5 Flash, Cohere Command-R+, Opik, Groq (LLaMA3-70B).

End-to-End Data Engineering Pipeline on AWS

May 2025

I developed an End-to-End Data Engineering project using AWS services that allows users to ingest, process, query, and visualize data. The project involves ingesting raw data through S3 and using AWS Glue Crawler to automatically discover and extract new data from the S3 bucket. After extraction, the data is queried using AWS Athena for analysis, and AWS QuickSight is used to create interactive dashboards for actionable insights from the data.

Tech Stack: AWS S3, AWS Glue Crawler, AWS Athena, AWS QuickSight, Python.

Mutli Model RAG

April 2025

Developed a Multimodal Retrieval-Augmented Generation (RAG) application that allows users to upload and interact with PDF, Word, and video files. The application extracts text from the uploaded files, converts it into embeddings, and stores these embeddings in a vector database. Users can then interact with the model through natural language queries to accurately retrieve information from the provided files.

Tech Stack: Streamlit, Python, VectorDB, VScode, Gemini 1.5 Flash model, Cohere.

URL Shortener

Oct 2024

Designed and implemented a scalable URL shortener service to generate unique, shortened URLs and handle efficient redirections. Used hashing techniques for generating short URLs and managed URL mappings using in-memory storage.

Tech Stack: Python, VScode,

EDUCATION

Srinivasa Ramanujan Institute of Technology

2025

BTech in Computer Science and Engineering (AI&ML)

CGPA: 8.97

Narayana Junior College

2021

Intermediate-MPC

CGPA: 9.8

Narayana E.M High School

2019

10th Class

GPA: 10.0

ACHIEVEMENTS

- Secured 2nd position in coding contest conducted by **Mohan Babu University** as a part of the “Mohan Mantra 2k23” event.
- **Certificate of Appreciation – Codebasics GenAI Challenge (Jul 2025)**
Recognized for developing a secure, role-based RAG Assistant with LangGraph, multi-vector databases, and LLM integration.

HACKATHONS

- Participated in Bee-hacks Hackathon “FUZON-2K23” conducted by JNTUA.

LANGUAGES KNOWN

Telugu, Hindi, English

EXTRACURRICULAR ACTIVITIES

- NSS Volunteer

CERTIFICATIONS

- Received Certificate from **IBM** for successfully completing the “IBM Skills Build” Internship.