**Sai Sri Raghavi Konda**

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## **PROFESSIONAL EXPERIENCE**

## **Software Developer Intern | International Fund for Agriculture Development (IFAD) | Aug 2024 – Dec 2024**

## Developed **LLM-powered AI agent orchestration** functions for structured querying and automated task execution using **Python.** • Built an **AI-powered function execution pipeline,** integrating **GPT-based models** for query parsing, response generation, and dynamic task execution. • Designed a **function flow visualization tool using NetworkX and Matplotlib** to enhance execution tracking and debugging. • Contributed to the development of **LLM-driven AI features** for business-specific products, such as a tool to generate a President's Report draft from a Project Design Report. • Worked with **PyTorch, TensorFlow, and Scikit-Learn for ML model development, experimentation, and fine-tuning of LLMs.** • Developed **GraphRAG, a graph-based Retrieval-Augmented Generation (RAG) system, enhancing AI-driven knowledge retrieval, reasoning, and contextual understanding.** • Built and deployed **cloud infrastructure using Terraform, ensuring scalability, reliability, and efficient LLM model deployment.** • Documented **cloud resources and AI workflows**, covering **infrastructure components, LLM deployment strategies, security policies, and operational best practices.**

## **Software Development Engineer |Sopra Steria, Chennai, India | Jul 2021 – Jan 2023**

## Developed **Azure** and **AWS-based applications** (Azure Landing Zone, AWS Landing Zone) for high availability and fault tolerance.

## Created **Terraform scripts** to automate cloud infrastructure setup.

## Deployed and maintained applications in **AWS Elastic Container Service (ECS) using Docker**.

## Implemented **CI/CD pipelines** in **GitLab**, reducing manual deployment efforts and improving efficiency.

## Automated system provisioning and configuration management with **Ansible**, reducing deployment time significantly.

## Used **AWS SQS** as a messaging broker and **CloudWatch** for logging and alerts.

## Configured and managed pipelines with **AWS CodePipeline** for continuous integration and deployment.

## Worked with **Git,** **GitHub**, and **Jira** for version control, issue tracking, and project management.

## **EDUCATION**

## **Master’s in computer science**

**University of North Texas**, Denton, Texas (Jan 2023 – Present)  
**Relevant Coursework**: Fundamentals of Artificial Intelligence, Data Visualization, Deep Learning, Machine Learning, Fundamentals of Databases.

**Bachelor of Technology in Computer Science & Engineering**

**Gitam School Of Technology, Hyderabad, India** (Jun 2017 – May 2021)  
**Relevant Coursework**: Computer Systems Architecture, Data Structures, Design and Analysis of Algorithms, Fundamentals of Cloud Computing, Artificial Intelligence and Machine Learning

**PROJECTS**

**Analysis of Climatic Changes Using Machine Learning**

## Applied machine learning algorithms to analyze climatic trends and patterns.

## Analyzed climate data to identify key factors affecting climate change.

**Document Chatbot (Powered by DeepSeek R1 & Ollama)**

## Developed an AI-driven document chatbot using the DeepSeek R1 model, integrated via Ollama for local inference.

## Implemented top\_p, top\_k, and Temperature parameters to fine-tune response coherence and diversity.

## Designed to process and answer queries from uploaded documents, improving information retrieval efficiency.

**TECHNICAL SKILLS**

## **Programming Languages**: Python, Bash

## **Cloud & DevOps**: AWS (EC2, OpenShift, Lambda, S3, CloudFormation), Azure

## **Infrastructure as Code**: Terraform, Ansible

## **Containers & Orchestration**: Docker, AWS ECS

## **CI/CD & Automation**: GitLab CI/CD, AWS CodePipeline

## **Databases**: MySQL, PostgreSQL, MongoDB, Oracle

## **Version Control & Tools**: Git, Jira

## **AI & Machine Learning:** DeepSeek R1, GPT-based models, Retrieval-Augmented Generation (GraphRAG), Ollama

## **Natural Language Processing:** Hyperparameter tuning (top\_p, top\_k, Temperature), AI-driven document querying

**CERTIFICATIONS**

## Microsoft AI Fundamentals Certification.

## Terraform Certified Associate