

## Venkata Karthik Draksharam

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### **SUMMARY**

Generative AI Professional | Cloud Infrastructure Specialist | Systems Engineer

A results-driven professional with over 2 years of experience in AI/ML solutions and cloud infrastructure. Proficient in developing and deploying AI/ML applications using Langchain and LangGraph, and implementing multi-cloud infrastructure on AWS and Azure. Skilled in building CI/CD pipelines with Jenkins and automating scalable infrastructure designs.

### **CERTIFICATES**

- Amazon Web Services: AWS Certified Machine Learning Engineer - Associate, 2026
- Microsoft: Microsoft Certified: Azure Developer Associate (AZ-204), 2025
- Microsoft: Microsoft Certified: Azure Administrator Associate (AZ-104), 2025
- Microsoft: Microsoft Certified: Azure AI Engineer Associate (AI-102), 2025
- Amazon Web Services: AWS Certified AI Practitioner, 2025
- Amazon Web Services: AWS Certified Solutions Architect - Associate, 2023
- Amazon Web Services: AWS Certified Cloud Practitioner, 2023

### **SKILLS**

#### **Engineering Practices**

- Containerization, Configuration Management Implementation, Infrastructure as Code development and maintenance, Web and Application Servers Configuration and Maintenance, Continuous Integration Development & Maintenance, SDLC Methodologies, Automation Using Scripting and Programming Languages, Database Configuration and Maintenance, GenAI for Systems Engineering Productivity, Source Code Management, AIOps, Container Orchestration management, Network Administration, OS Administration, Gen AI Application Development,

#### **Soft Skills**

- **Communication:** Being a Team Player, Building dialogue, Communication, **Managing Teamwork:** Managing Teamwork, **Growth Mindset:** Adaptability, Agility and Flexibility, **Ownership:** Ownership, Problem-solving, Self-Management

#### **Technologies**

- **Platforms:** Microsoft Azure, Amazon Web Services, **AI Technologies:** Retrieval Augmented Generation, Model Context Protocol, Agentic Framework, **Operating Systems:** Microsoft Windows, Linux, **Computer Languages:** Java, Python, UNIX shell scripting,

## **WORK EXPERIENCE**

Jun-2024 - Till now (Jan-2026) - EPAM Systems, <https://www.epam.com/>

**Project Roles:** Junior Systems Engineer

**EPAM Project Description:** Designed and delivered AI/ML and cloud-native platform and solutions using LangChain, LangGraph, AWS, and Azure, improving NLP accuracy by 90% and reducing processing time by 40% through optimized prompt engineering. Implemented multi-cloud infrastructure with Terraform and Kubernetes, achieving 99% uptime and reducing costs by 45%. Built and maintained 10+ Jenkins CI/CD pipelines, increasing deployment frequency by 300% and cutting failures by 85%. Developed interactive Streamlit applications and REST APIs, ensured code quality through testing.

Jan-2025 - Jun-2025 - Andhra Pradesh Technology services, <https://videonew.apts.gov.in/>

**Project Roles:** Cyber Security Engineer

**Project Description:** Developed a microservice-based automation platform for JavaScript reconnaissance, enabling daily scanning of 500+ domains and reducing manual reconnaissance time by 80%. Identified security vulnerabilities, significantly enhancing detection efficiency at scale. Strengthened production security by implementing SAST and container security practices aligned with DevSecOps principles, achieving an 80% reduction in vulnerabilities and improving compliance scores by 65% across 25+ containerized applications. Led recurring VAPT cycles for enterprise web applications, uncovering over critical vulnerabilities with a 90% remediation rate, reducing risk exposure by 75% within six-month assessment cycles.

## **EDUCATION**

**Name of the Education Establishment:** VELLORE INSTITUTE OF TECHNOLOGY

**Faculty/College:** School of Computer Science and Engineering

**Specialty:** Computer Science (spec. Networks and Security)

**Degree (diploma):** Bachelor