

# HEMANTH KUMAR MOTUKURI

DevOps & MLOps Engineer | Kubernetes & Cloud Enthusiast

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## ABOUT ME

DevOps Engineer with 5+ years of experience specializing in CI/CD automation, cloud infrastructure (AWS), and container orchestration using Kubernetes. Currently expanding expertise into MLOps and Advanced Kubernetes, with active preparation for the Certified Kubernetes Administrator (CKA) exam. Proven track record of reducing deployment times by 40% and optimizing cloud costs through Infrastructure as Code and Shell scripting automation. Recently completed an intensive 6-month Cloud/DevOps certification and architected a full-stack MLOps platform.

## WORK EXPERIENCE

### MLOps Researcher & Automation Engineer (Independent)

Jul 2025 – Present

*Self-Employed | Remote*

- Built an end-to-end House Price Prediction Platform using Python, Scikit-Learn, and FastAPI, covering data ingestion to model serving.
- Containerization: Dockerized the model inference API to ensure consistent and reproducible runtime environments.
- Orchestration: Deployed the application on a Kubernetes cluster, leveraging self-healing and auto-restart capabilities.
- Automation: Developed pipelines for synthetic data generation and automated model retraining using Pandas and Python scripts.

### DevOps & Cloud Project Trainee

Jan 2025 – Jul 2025

*PaperLive Learning | Remote*

- Completed an intensive 6-month 'DevOps and Cloud Job-Ready Program', gaining hands-on expertise across the full DevOps toolchain.
- Capstone Project: Designed and implemented a CI/CD automation pipeline for a microservices-based application, simulating an enterprise-level DevOps lifecycle.
- Cloud: Provisioned and managed scalable infrastructure on AWS using Terraform, applying IaC best practices.

### DevOps Engineer

May 2023 – Oct 2024

*Valeo India Private Limited | Chennai*

- Infrastructure & Scaling: Designed modular Terraform scripts for AWS provisioning and implemented Karpenter on EKS for dynamic node scaling, reducing cluster costs and improving performance. Managed consistent configuration across environments using Ansible playbooks.
- CI/CD Optimization: Streamlined release workflows using Jenkins (Groovy pipelines) and GitHub Actions, integrated with ArgoCD for GitOps-based Kubernetes deployments — reducing deployment times by 40%.
- Automation: Built Python and Shell scripts to automate routine cloud operations, log rotation, and maintenance tasks — cutting manual effort by 70%.
- Monitoring & Observability: Set up end-to-end observability using AWS CloudWatch, Prometheus, and Grafana to monitor cluster health, application metrics, and real-time logs.
- Cost & Security: Reduced AWS costs through Auto Scaling and EC2/EBS right-sizing. Strengthened security compliance by enforcing IAM policies and least-privilege access controls.

### Junior DevOps Engineer

Feb 2020 – May 2023

*Mantra Technologies Pvt Ltd | Hyderabad*

- CI/CD & Pipelines: Designed and managed Jenkins (Groovy) pipelines for Java applications and built GitHub Actions workflows to automate testing and deployment cycles.

- Infrastructure as Code: Developed modular Terraform scripts to provision AWS resources (EC2, S3, IAM) and maintained environment consistency using Ansible playbooks.
- Containerization: Containerized legacy applications using Docker, managed multi-container setups with Docker Compose, and orchestrated production deployments on Kubernetes.
- Release Management: Managed Git SCM activities (Branching, Merging, Tagging) and automated Maven build processes, ensuring reliable artifact delivery across Dev, QA, and Prod environments.
- Cloud Operations: Maintained and monitored AWS infrastructure including ELB, Auto Scaling, and CloudWatch to ensure high availability for the AgileCRM SaaS product.
- Collaboration: Partnered closely with development teams in an Agile environment to diagnose build failures, resolve blockers, and minimize release downtime.

## SKILLS

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<b>Cloud</b>	AWS (EC2, S3, IAM, ELB, EKS, CloudWatch, Auto Scaling)
<b>Containerization</b>	Docker, Kubernetes, Helm, Karpenter, Docker Compose
<b>IaC</b>	Terraform, Ansible
<b>CI/CD</b>	Jenkins (Groovy), GitHub Actions, ArgoCD, Maven, Git
<b>Scripting</b>	Python, Bash / Shell Scripting
<b>MLOps</b>	Model Serving, FastAPI, Scikit-Learn, Pandas
<b>Monitoring</b>	Prometheus, Grafana, AWS CloudWatch

## EDUCATION

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**Bachelor's Degree in Information Technology**

*Vignan University, Guntur*

May 2018