

# UPENDRA RAO JONNADA

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## ***Professional Summary:***

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- 9 Years of experience in all phases of Software Development Life Cycle such as Requirement Analysis, Planning Design, Development, Testing and Release of various Enterprise-Wide Software Applications.
- Experience in setting up the enterprise infrastructure on Amazon Web Services (AWS) like
  - EC2Instance, S3Bucket, Security Groups, Auto Scaling, AMI, IAM.
  - Managed GIT repositories for branching, merging and tagging.
  - Worked with Bitbucket for cloning source code and pushing changes into repositories Working on migration part on Git Hub.
  - Deploying the weekly release through GCC, and build and Dockerize through Teamcity
- Extensively worked on Jenkins for Continuous Integration and for End-to-End automation for all build and deployments.
- Specialized in deploying and managing computer vision models using AWS services (SageMaker, S3, EC2, ECR), MLflow, and Docker for scalable and reproducible model training, evaluation, and deployment.
- Proficient in leveraging MLflow for model tracking, experiment management, version control, and performance monitoring, ensuring traceability and reproducibility across all stages of the machine learning lifecycle.
- Experienced in AWS SageMaker for distributed training, hyperparameter tuning, and deployment of production-grade models, integrating seamlessly with Step Functions and EventBridge for pipeline orchestration.
- Skilled in containerizing models and training logic, enabling easy deployment and integration within SageMaker and AWS infrastructure.
- Proven track record in automating model validation, detecting data drift, and promoting models using MLflow Model Registry, ensuring continuous improvements and stable production performance.
- Designed and deployed computer vision models for object detection using custom datasets stored in Amazon S3

### ***Skills Profile:***

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<b>DevOps</b>	(Git, GitHub, Maven, Ansible, Jenkins, Docker, and Cloud (AWS/Azure))
<b>Operating System</b>	Linux (CentOS, Ubuntu)
<b>MLOps</b>	AWS SageMaker, MLflow, Docker, PyTorch, YOLOv10, MMYOLO, AWS Lambda, Eventbridge
<b>CI/CD</b>	Jenkins, MLflow, AWS SageMaker Pipelines
<b>SCM Tools</b>	GitHub
<b>Build Tool</b>	Maven
<b>Bug Tracking Tool</b>	JIRA, Datadog
<b>Other</b>	Shell Scripting, Python
<b>Management and Leadership Skills</b>	Ability to produce realistic software schedules, Project Management, Strategic/ Tactical Planning, Business Analysis and Development, Budgeting/Forecasting, and New Product Development.
<b>Training &amp; Development</b>	Technical ability to Train and Troubleshoot

### ***Professional Experience:***

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***TeamLease Digital Pvt Ltd***

***Client-GlobalLogic***

***BusPatrol Project***

**Feb 2025 – July 2025**

**Role: MLOps Engineer**

- Designed and deployed computer vision models for object detection using custom datasets stored in Amazon S3.
- Managed training pipelines on AWS SageMaker, enabling distributed training and hyperparameter tuning.
- Integrated MLflow for experiment tracking, versioned model registry, and model monitoring with SageMaker Model Monitor.
- Promoted best-performing models into MLflow Model Registry, ensuring version control and automated deployment.

- Containerized models and training logic using Docker and deployed to AWS ECR for seamless integration with SageMaker jobs.
- Automated model training and retraining using SageMaker Pipelines, EventBridge, and Step Functions.

**Environment:** AWS SageMaker, Docker, PyTorch, MLflow, Amazon S3, EC2, CloudWatch, ECR, Step Functions, MMYOLO, YOLOv10

## **Capgemini Technology Services India Limited**

### **Farmers Insurance Group**

**Aug/2023 - Jun/2024**

**Role: DevOps/MLOps Engineer**

- Worked with Bitbucket for cloning source code and pushing changes into repositories.
- Deployed weekly releases through GCC, and built and Dockerized through TeamCity for seamless continuous integration.
- Configured and maintained stress servers in different geographical locations and provided setup for stress testing in every release.
- Created automated release pipelines using GIT for continuous delivery with automatic workflow and deployment processes.
- Managed defect and change tracking using JIRA, ensuring smooth change management throughout the development lifecycle.
- Administered and engineered Jenkins for managing the build, test, and deploy chain across Dev/Test/Prod environments, adhering to the branching model.
- Leveraged Datadog for build configuration logs and error analysis, ensuring optimal build performance and early issue detection.
- Fully managed non-production environments and took complete responsibility for the deployment process across development stages.
- Implemented MLOps pipelines using AWS SageMaker and MLflow to enable continuous model training, validation, and deployment, aligning with best practices in machine learning lifecycle management.
- Integrated MLflow for experiment tracking, model versioning, and performance monitoring, ensuring reproducibility and consistency across different stages of model development and deployment.
- Containerized machine learning models for deployment, ensuring consistent and scalable performance in AWS SageMaker environments.

**Environment:** Git, Bitbucket, Docker, Maven, AWS (SageMaker), MLflow, Datadog

## **Capgemini Technology Services India Limited**

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**Jun/2021 - Jun/2023**

**Role: DevOps/MLOps Engineer**

- Migrated code from Endeavour to GitHub by onboarding mainframe applications through Helios.
- Developed migration pipelines using Jenkins to automate the migration of code from legacy systems to GitHub repositories.
- Created migration pipelines to onboard code, update necessary properties, and validate migrated code in different environments.
- Took full responsibility for managing non-production environments, ensuring quality assurance and smooth code migration and testing processes.
- Automated ML workflows using Jenkins and AWS ML services such as SageMaker for model training, deployment, and monitoring.
- Integrated MLflow with AWS SageMaker to manage model tracking, experiment logging, and performance comparison across different training runs.
- Containerized machine learning applications to streamline testing and deployment workflows, ensuring seamless integration with SageMaker and AWS infrastructure.
- Built and deployed end-to-end MLOps pipelines for continuous training, validation, and deployment of machine learning models, using Jenkins, SageMaker, and MLflow.
- Enabled automated ML model retraining by integrating data monitoring services with AWS CloudWatch and SageMaker Model Monitor to detect model drift and trigger retraining pipelines.
- Leveraged AWS S3 for storing and versioning datasets, ensuring that the data used for training is accessible and consistent across different models and training runs.
- Ensured all models were fully versioned and tracked through MLflow, improving model management, traceability, and deployment consistency.

**Environment:** GitHub, Jenkins, Jira, MLOps (MLflow, SageMaker), AWS (SageMaker, CloudWatch, S3), UCD, IDZ, TNOCC, Helios, Jira

## **Creative Tech Mars Software Solutions Pvt Ltd**

**CAPITAL ONE BANK-US**

**Dec/2019 - May/2021**

**Software Engineer**

- Experience in setting up the enterprise infrastructure on Amazon Web Services (AWS) like
- EC2 instance, Security Groups, Auto Scaling, AMI, VPC services.

- Implemented a GIT mirror for SVN repository, which enables users to use both GIT and SVN.
- Implemented Continuous Integration using Jenkins and GIT.
- Integrated customized automated deployment manager tool with the GitHub by changing
- and improvising the shell scripts previously used for SVN.
- Maintained build related scripts developed in shell for Maven builds. Created and
- modified build configuration files including POM.xml.
- Bash scripting experience on creating automation process of application deployment.
- Review work performance by others and provide recommended improvement of CI/CD Focus.

**Environment:** Git, GitHub, AWS cloud, Jenkins, Jira, Apache Tomcat

## **Creative Tech Mars Software Solutions Pvt Ltd**

### **MARRIOTT HOTELS**

**Sep/2016 – Nov/2018**

#### **Ass Software Engineer**

- Experienced in setting up the infrastructure on Amazon Web Services (AWS) like VPC, EC2
- instances, ELB, Security Groups, Auto Scaling, AMI.
- Debug & fix issues with AWS base servers. Creating IAM roles and setting permission as per the requirement.
- Maintained and managed Ansible Playbooks responsible for deploying Framework and other cloud tools.
- Worked on Git Flow for production Release.

**Environment:** Git, Apache Tomcat, Apache http Server (HTTPD), Docker, AWS VPC, EC2, Auto Scaling, Shell Scripts Basics.

#### **Education**

B.E.(Mechanical) from Andhra University in 2016, (PRIME COLLEGE), Vishakapatnam, Andhra Pradesh.

#### **Professional Organizations:**

- 1.TeamLease Digital Pvt Ltd
- 2.Capgemini Technology Services India Limited
- 3.Creative Tech Mars Software Solutions Pvt Ltd