

Jagadish

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EXPERIENCE

ML Ops Engineer (6 Years) — Robert Bosch, Bangalore

Jun 2017 - PRESENT

Responsible for ML model lifecycle & developing machine learning, optimization & statistical models to solve real world problems.
Feature engineering: Feature validation, feature transformation, feature pipeline, serving and training database, feature metadata and artefacts collection.
Expert in Machine learning algorithms, deep learning frameworks, and natural language processing (NLP) techniques, LLM models, Generative AI.

Data Engineer (3 Years) — Capgemini, Bangalore

Jul 2015 – Jun 2017

Migration On-Prem solution to Cloud (AWS) Data pipeline/workflow management.
Visualization tools.

Jr. Software Engineer (2 Years) — Tech Mahindra, Bangalore

Oct 2012 - Jun 2015

Building micro services and rest endpoint development with MVC environment.

EDUCATION:

Bharathiar University, Coimbatore — MCA

AUGUST 2013 - MARCH 2016

Master Degree in Computer Science.

GPA: 7.5 /10

Bharathiar University, Coimbatore — BCA

AUGUST 2009 - MARCH 2012

Master Degree in Computer Science.

GPA: 8.2/10

WORK SUMMARY:

ML Foundation & Fine-tuned Models Lifecycle management:

ML model deployment in cloud and on prem GPU clusters and containers.

Implementation with Virtual Machine, Serverless Computing, Private Cloud, Public Cloud, Hybrid Cloud, Web Services, API GW, Auto Scaling, Cloud Migration, Content Delivery Network (CDN), Event Driven Architecture, DNS, Micro services.

LLM foundation and optimized model deployment.

Training orchestration, Model monitoring/Severing, Data versioning, Feature Store, Experiment tracking.

SKILLS

MLOPS (MLFlow,Airflow,

Sagemaker, Vertex AI)

Cloud (AWS, Azure, GCP)

Python (ML & DL

frameworks),

SQL,

Big Data (Hadoop, Spark)

GraphDB (Neo4j)

DevOps (Docker,K8s,OpenShift,

Jenkins, ArgoCD, Argo Workflow,

Ansible, Rancher)

AWARDS

Winner in Code Champ,

Runner in Bangalore

hackathon (IOT)

LANGUAGES

English,Tamil

Developing AI/ML and data driven solutions:

Lift and shift of in-house ML solution to aws cloud with AWS using Lambda and EKS/ECS, Amazon S3, Amazon API Gateway, SQS, SNS, etc.,

Designing, building, and supporting production level workloads using Amazon Web Services.

Design tools for data ingestion, analysis, and streaming such as Elasticsearch and Apache Kafka.

Bosch Conversation System & Cognigy (Chatbot)

Back-end python developer for Bosch Conversation System, Contributed for NLP & Integration management and part of Cognigy on boarding & implementation.

Knowledge Management & Auto ticket resolution (PDF document search)

Build a search engine to search related text in the PDF document & provide auto solution based on previous ticket resolution history.

DevOps/Automation:

Solution deployment in AWS using Lambda and other stacks, experience in managing large enterprise applications and migrating applications to cloud.

Troubleshooting in Linux production environments and working with Linux, Internet Protocols, and Large-Scale Operations.

API integration and development (REST and GraphQL)

CI/CD pipeline tool management.

Independent contributor for end-to-end solution architecture

Auto-healing solution for multiple incident management requests.

ML OPS Tools:

Training Orchestration	CML, Datature
Model Monitoring	DeepChecks
Model testing	Hypervector
Model severing	BentoML, KF servering
Data Versioning	DVC
Feature Store	Bytehub
Experiment tracking	ML Flow

What I do day to day:

MLOps Infrastructure Management: Develop, enhance, and maintain the MLOps infrastructure to seamlessly facilitate the complete life cycle of machine learning models—from data collection and preprocessing to training, validation, deployment, and ongoing monitoring.

Automation and Orchestration: Create automated pipelines and workflows to streamline machine learning model training, testing, and deployment processes, ensuring consistency, efficiency, and repeatability.

Model Deployment Excellence: Collaborate closely with data scientists and machine learning engineers to effectively deploy models into environments, prioritizing considerations such as scalability, reliability, and security.

Monitoring and Performance Optimization: Establish robust monitoring and alerting systems to track model performance, data drift, and overall system health. Identify bottlenecks and optimize deployed model performance.

Version Control and Collaboration: Institute and maintain version control systems for machine learning artifacts, fostering effective collaboration and knowledge sharing within the team and training juniors.

Security and Compliance Adherence: Ensure strict adherence to security and compliance standards and best practices across all MLOps processes and systems.

Infrastructure Oversight: Manage cloud-based infrastructure and resources to efficiently support MLOps workflows and accommodate scaling requirements.

Continuous Integration and Deployment (CI/CD): Implement best practices for Continuous Integration and Deployment in machine learning pipelines, streamlining model deployment and update processes.

Thorough Documentation: Document MLOps processes, system architecture, and deployment procedures comprehensively to facilitate knowledge sharing and streamline onboarding for team members.

Research and Innovation: Staying abreast of the latest advancements in MLOps and automation technologies, actively proposing innovative strategies to enhance machine learning operations.