

GOPI KRISHNAN | MLOPS Engineer

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PROFESSIONAL EXPERIENCE

Experienced in building end-to-end MLOps pipelines with CI/CD, model monitoring, and deployment using Python, MLflow, Docker, and Kubernetes (EKS/GKE). Skilled in deploying models on EKS with scalable, production-ready workflows. Proficient in creating lightweight Flask and Streamlit apps for model serving, demos, and stakeholder interaction.

IBM MLOPS Engineer

Bangalore, IN
DEC 2020-Present

- Led the development of a scalable end-to-end MLOps platform for model training, versioning, deployment, and monitoring using Python, MLflow, Docker, Kubernetes (EKS).
- Built and deployed automated ML pipelines integrated with CI/CD tools like Jenkins and GitHub Actions, reducing manual interventions by over 60%.
- Deployed ML models to both AWS (EKS, S3, SageMaker) and IBM environments, ensuring cross-cloud scalability and resilience.
- Implemented a centralized feature store and model registry to enable model versioning, traceability, and easy rollback in production.
- Integrated data drift detection and model validation using tools such as Great Expectations, increasing model reliability and compliance.
- Developed real-time monitoring dashboards using Grafana and custom alerting via Slack bots, improving pipeline observability and operational health.
- Created FastApi and Streamlit apps for interactive model demos and stakeholder feedback, accelerating model iteration cycles.
- Collaborated with data scientists to convert research notebooks into production-grade workflows, adhering to MLOps best practices.
- Supported real-time deployment of ML models for fraud detection and churn prediction, processing over 5 million records/month on scalable cloud infrastructure.
- Continuously monitored model performance post-deployment and implemented automated retraining strategies based on business KPIs and model accuracy metrics.

WELLS FARGO / J2W Senior Developer

Bangalore, IN
Oct 2013-Jul 2020 - Dec 2020

- Designed and maintained robust Django-based web applications, achieving a 30% reduction in downtime and improved system reliability.
- Led code review initiatives that resulted in a 15% boost in code maintainability and test coverage.
- Developed and integrated RESTful APIs and microservices to support scalable backend services in high-availability environments.
- Enabled seamless third-party data exchange by embedding secure, scalable API integration mechanisms.
- Engineered robust exception handling systems and built a Python-based Excel comparator tool using Pandas to process millions of records within one minute.

HCL
Software Engineer

Bangalore, IN
Jan 2011-Oct 2013

- Worked on OOP concepts using Python, Django, and Linux.
- Assisted in building small modules in Django projects.
- Documented workflows with design notes and flowcharts.

TECHNICAL SKILLS

Languages: Python, Golang, Shell Scripting, HTML, VBA

Frameworks/Tools: MLflow, Great Expectations, Flask, Streamlit, Django, Postman, Swagger, DVC, Airflow

DevOps & MLOps: Docker, Kubernetes (Minikube, EKS), Jenkins, GitHub Actions, Prometheus, Grafana, Feature Stores, Model Registry, Apache AirFlow

Cloud & Infrastructure: AWS (EKS, S3, EC2), GitHub, Linux

Data & Storage: MySQL, SQLite, Pandas, RESTful APIs

Other: Agile/Scrum, CI/CD, Monitoring, Drift Detection

PROJECT HIGHLIGHTS

MLOPs Pipeline Automation: Reduced deployment time by 70% by automating model training and deployment with GitHub Actions, Docker, and MLflow.

Model Monitoring Framework: Designed Prometheus + Grafana stack to monitor model latency and accuracy in real time.

Feature Store Integration: Enabled better model performance and retraining by implementing reusable and auditable features using Feast.

Slack Bot Alerts: Created Slack alerts for anomaly detection by creating Slack bot.

INTELLCTUAL PROPERTY

Docket P202501989US01 Title: PROMPT MINIMIZATION IN LARGE LANGUAGE MODELS

EDUCATION

PSNA CET ANNA UNIVERSITY

Bachelor of Engineering, Major in Computer Science;

2006-2010