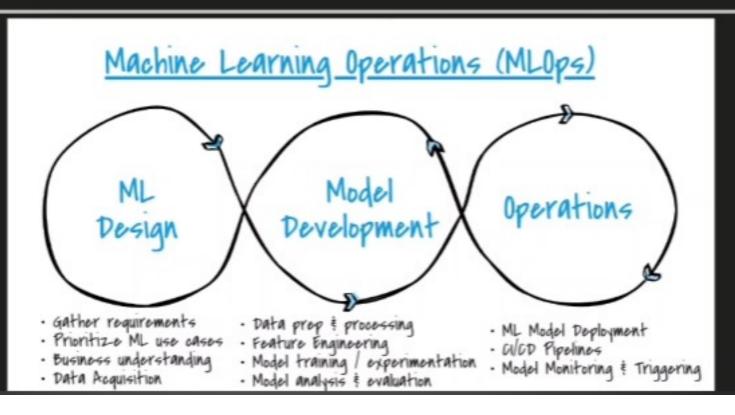


Delivery Deployment Mointainance



Introduction to MLOps

Machine learning operations (MLOps) are a set of practices that automate and simplify machine learning (ML) workflows and deployments. It is the development and use of machine learning models by development operations (DevOps) teams. MLOps adds discipline to the development and deployment of machine learning models, making the development process more reliable and productive.



- 1. Code standards OOPS concept, modular coding, work with logging module for better debugging, managing (artifacts, components, pipeline etc)
- 2. Code Versioning Git & GitHub (Bitbucket, GitLab)
- 3. Data/Model versioning, maintaining data pipeline & experimentation · DVC, MLflow (Neptune, Seldon, Kubeflow, ZenML)
- 4. CICD tools GitHub Actions, CircleCI, TravisCI
- 5. Containerization for code reliability Docker and Dockerhub
- 6. Scalability & Monitoring · Kubernetes, Prometheus, Grafana
- 7. AWS Services · IAM User, ECR, S3, EC2 etc

All in one services - AWS Sagemaker, Google Vertex AI, Azure ML

