Introduction

1. The Set of best practices to put Machine Learning in production is called ML Ops
2. Design Phase , Train Phase , Operate Phase
3. ML OPs helps making these stages easy from retraining to deployment trying to automate as muxh as possible

ML Ops Course overview

1. To keep track of different models trained and their metrics save them to a log file
2. Similarly models can be saved to a model registry
3. Just as a datapipeline we can have an ml pipeline eg :- Load and prepare the data , apply feature engieering , train the model etc.
4. The output of the pipeline will be a model
5. After productionizing the model we could monitor it for performance
6. Whenever there is a dip I performance we could either send an alert or set up an automated process to retrain the model on new data and automatically deploy the new version

ML Ops maturity

1. Level 0 : - No ML Ops Model development in Jupyter no corodination
2. Level 1:- DevOps are present Realesses are automated ,CI CD etc (No experiment tracking)
3. Level 2:- Automated Model training , Experiment Tracking, Model Registry
4. Level 3:- Automated Deployment .. Easy to Deploy Model A/B testing
5. Level 4:- Full MLOpd Automation Automated Training , Retraining and Deployment