

AGENDA

WHAT IS MLOPS?

WHY MLOPS?

PRINCIPLES OF MLOPS

HOW DOES MLOPS WORK?

ADVANTAGES OF MLOPS

SUMMARY

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entire session



WHAT IS MLOPS?



Eliminate waste



Automate



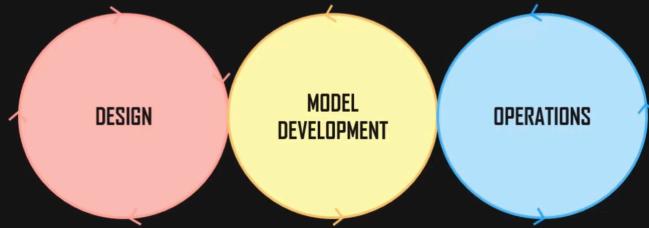
Produce Insights

MLOps is a set of practices that drive a seamless integration between your development cycle and your overall operations process can also transform how your organization handles big data.

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much as possible and produce richer more consistent



WHAT IS MLOPS?



- Requirements Engineering
- ML Use Case Prioritization
- Data Availability Check
- Data Engineering
- ML Model Engineering
- Testing & Validation
- Model Deployment
- CI/CD Pipelines
- Monitoring & Triggering



All these phases are **interconnected** and **influence** each other
non-functional requirements

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WHY MLOPS?



but what lies in between all of these teams

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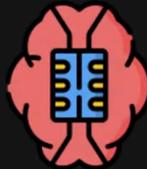
WHY MLOPS?



MLOps combines the expertise of all for more efficient ML



MLOps inculcates new regulations & best practices



MLOps helps avoid bottlenecks with better division of expertise

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finally the bottlenecks that result from complicated

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PRINCIPLES OF MLOPS

Automation



Automate the workflow steps without any manual intervention

Continuous X



Includes Continuous Integration, Deployment, Testing & Monitoring

Versioning



Tracks ML models and data sets with version control systems

Experiment Tracking



Multiple experiments on model training are parallelly executed

Testing



Tests for features & data, model development & infrastructure

Monitoring



Monitor to assure that the ML model performs as expected

Reproducibility



Should produce identical results given the same input

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includes three

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HOW DOES MLOPS WORK?

An ML model for production involves the following steps:

Data Extraction

Data Analysis

Data Preparation

Model Training

iteration in the process

now the level of automation of these

Model Evaluation

Model Validation

Serving & Monitoring

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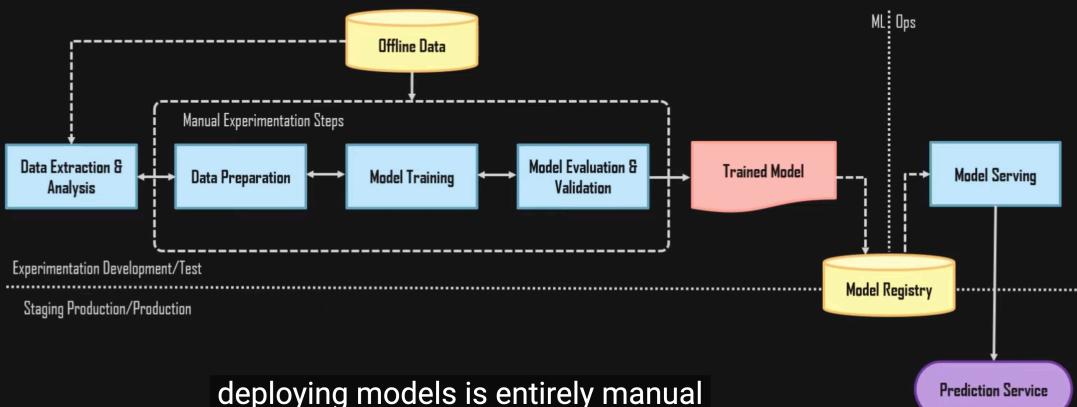


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Scroll for details



LEVEL I: MANUAL PROCESS



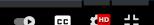
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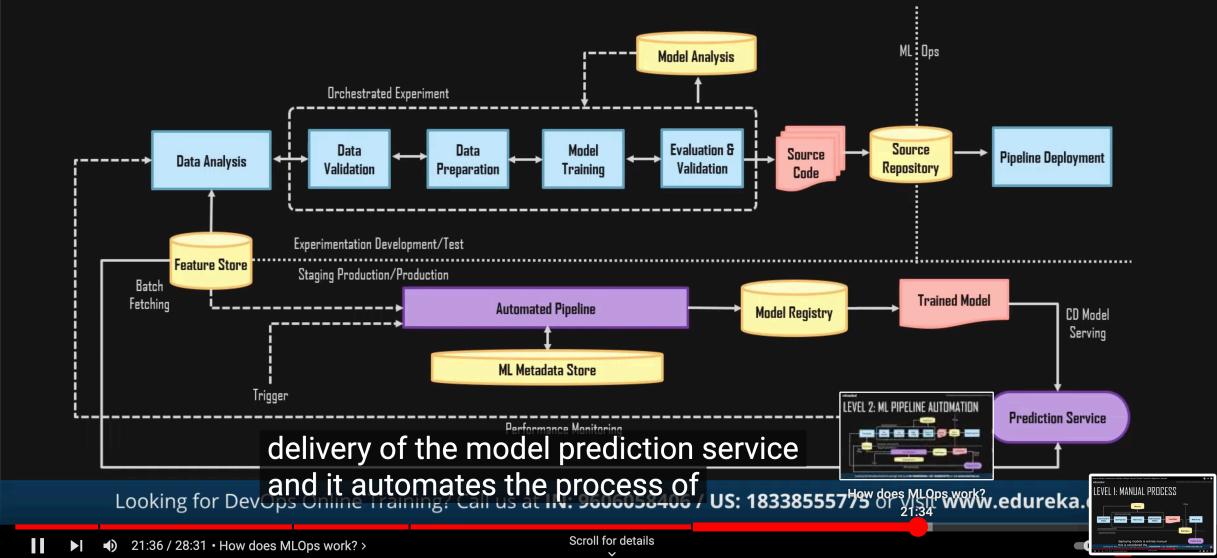


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LEVEL 2: ML PIPELINE AUTOMATION



LEVEL 3: ML PIPELINE AUTOMATION

