What is MLOps?

→ MLOps, short for Machine Learning Operations, is a fundamental aspect of Machine Learning engineering. Its primary goal is to **optimize the procedure of deploying machine learning models into production**, followed by their **ongoing maintenance and monitoring**. MLOps is a cooperative function that typically involves collaboration among data scientists, DevOps engineers, and IT professionals.

→ Utilizing the MLOps methodology proves **beneficial for crafting and enhancing machine learning and AI solutions**. Through the adoption of an MLOps approach, collaboration between data scientists and machine learning engineers is facilitated, **accelerating the development and production of models**. This is achieved by incorporating continuous integration and deployment (CI/CD) practices, coupled with diligent monitoring, validation, and governance of ML models.

80%
fewer lines to code*

*According to Google Vertex AI

60%
increase in data preparation speed**

**According to LG Sagemaker Case Study

97%
users observed significant improvement***

***According to Fortune Business Insights

Challenges you might face setting up separate infrastructure for your machine learning projects without the assistance of dedicated MLOps experts:

01 ━━━━━━━━━━━━━━

Cost-consuming training process on-premise without using cloud infrastructure, especially due to using expensive GPUs.

02 ━━━━━━━━━━━━━━

Time-consuming manual infrastructure setup processes, diverting focus from model development.

03 ━━━━━━━━━━━━━━

Lengthy and vague communication with the customer's IT department, resulting in delays in infrastructure setup and ML project initiation.

04 ━━━━━━━━━━━━━━

Challenging to reproduce the training model process if a data scientist uses their own personal devices for training or developing pipelines and then becomes unavailable for any reason.

05 ━━━━━━━━━━━━━━

Lack of monitoring model performance on production if model inference is done manually

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ABOUT ELEKS

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End-to-end projects delivered

64
Net Promoter Score

20+ Years of cooperation with key customers

120+ Active client accounts

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More certifications

Awards
More awards