MLOps on AzureML 1-Day Workshop

Information Sensitivity: General\External

MLOps on Azure Machine Learning Workshop

Overview

Duration:
Full Day (8hr)

Location:
Online / Onsite (customer location or innovation center)

Format:
Workshop

Overview:
This practical and interactive one day workshop is designed to provide the knowledge and share real project experience on how to effectively manage and optimize the operations of ML software using Azure Machine Learning. This workshop aims to help Data Science organizations in Azure ML adoption, as well as implementation of proper MLOps practices and standards.
The workshop will be conducted by DS/AI engineers with hands-on ML productization project experience.

Outcomes:
By the end of the workshop, the audience will gain a clear understanding and practical experience in using Azure Machine Learning for effective MLOps. This includes addressing common challenges and improving the efficiency and effectiveness of ML projects.

Target audience:
The workshop is aimed at AI/DS/ML managers and engineers and should ideally consist participants from the following areas:
- AI/Data Science/MLOps Managers
- AI/Data Science/MLOps Tech-Leads
- Senior Data Science/ML/MLOps Engineers

Preparation required (to be sent one week before workshop):
Send list of areas of interest or questions to be covered during the clarification session)

Price:
$5,000 USD
(doesn't include travel expaneses)

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Agenda

1. Intro:

- ML Software with underlying ML model, transforms continuously changing input data to the highest value output data.
- MLOps - operations, practices, and processes for ML Software

2. MLOps challenges:

- Experimentation Environment
- Code Management
- Data Management
- Model lifecycle
- Metrics / KPIs tracking
- Code, Data and Model CI/CD and Environments
- Production migration
- Monitoring
- Production Data issues
- Production Infrastructure issues
- Debugging
- Processes and data lineage
- Data / model rollbacks
- Security
- Organizator standards
- ML Project roles and efficiency

3. Azure Machine Learning:

- Platform Architecture
- Azure ML Assets / Objects:
  - Data
  - Jobs
  - Components
  - Pipelines
  - Environments
  - Models
  - Endpoints
- Managed Compute
- Orchestration
- Linked Services
- Data Labelling
- Python SDK v1 vs. V2
- Shared Assets
- Solutions challenges

4. Examples:

- Use Case
- Solution Design
- ML Pipelines

5. Discussion & deep dive