Machine Learning Engineering on AWS (MLEA)

ID MLEA **Price** CHF 2,470.—(excl. VAT) **Duration** 3 days

Who should attend

This course is designed for professionals who are interested in building, deploying, and operationalizing machine learning models on AWS. This could include current and in-training machine learning engineers who might have little prior experience with AWS. Other roles that can benefit from this training are DevOps engineer, developer, and SysOps engineer.

This course is part of the following Certifications

AWS Certified Machine Learning Engineer - Associate (CMLEA)

Prerequisites

We recommend that attendees of this course have the following:

- Familiarity with basic machine learning concepts
- Working knowledge of Python programming language and common data science libraries such as NumPy, Pandas, and Scikit-learn
- Basic understanding of cloud computing concepts and familiarity with AWS
- Experience with version control systems such as Git (beneficial but not required)

Course Objectives

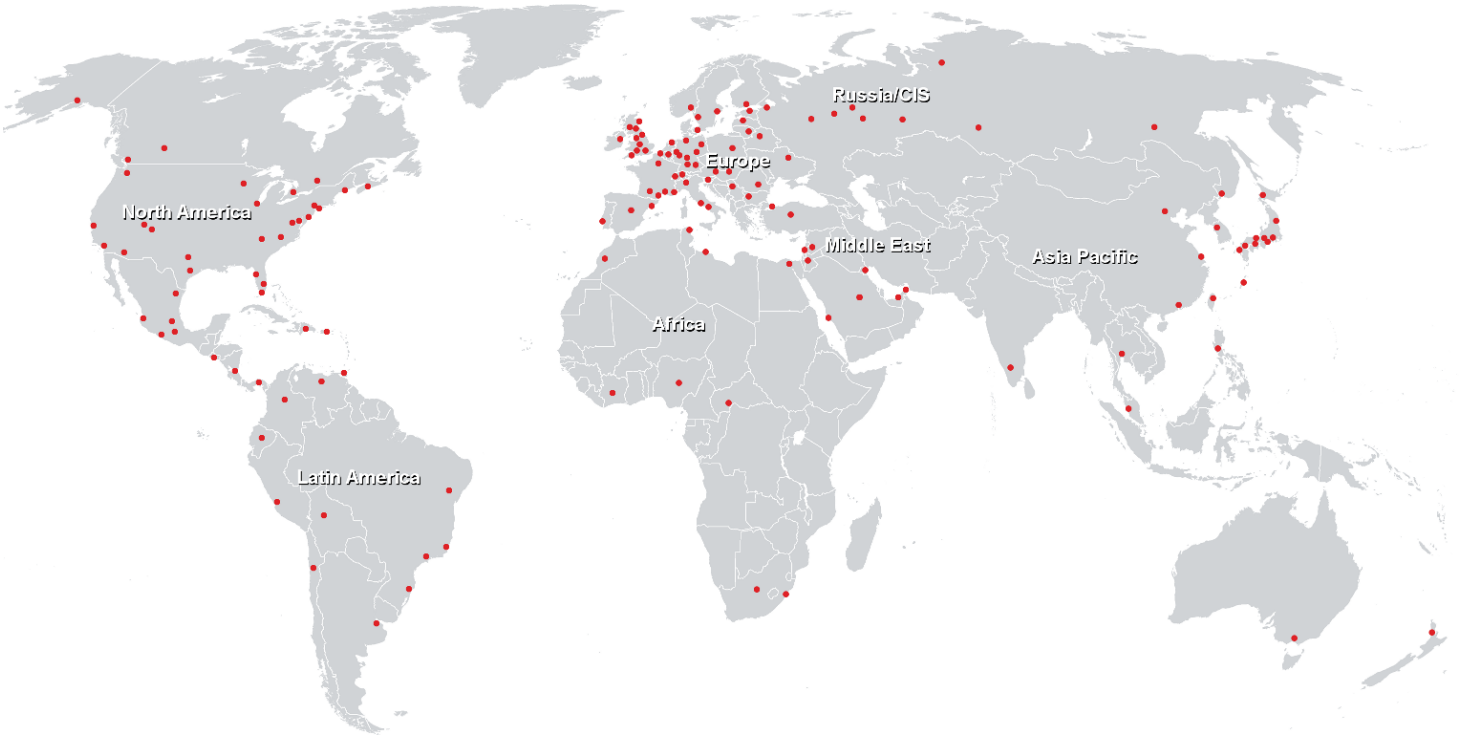
In this course, you will learn to do the following:

- Explain ML fundamentals and its applications in the AWS Cloud.
- Process, transform, and engineer data for ML tasks by using AWS services.
- Select appropriate ML algorithms and modeling approaches based on problem requirements and model interpretability.
- Design and implement scalable ML pipelines by using AWS services for model training, deployment, and orchestration.
- Create automated continuous integration and delivery (CI/CD) pipelines for ML workflows.
- Discuss appropriate security measures for ML resources on AWS.
- Implement monitoring strategies for deployed ML models, including techniques for detecting data drift.

Course Content

- Course Introduction
- Introduction to Machine Learning (ML) on AWS
- Analyzing Machine Learning (ML) Challenges
- Data Processing for Machine Learning (ML)
- Data Transformation and Feature Engineering
- Choosing a Modeling Approach
- Training Machine Learning (ML) Models
- Evaluating and Tuning Machine Learning (ML) models
- Model Deployment Strategies
- Securing AWS Machine Learning (ML) Resources
- Machine Learning Operations (MLOps) and Automated Deployment
- Monitoring Model Performance and Data Quality
- Course Wrap-up

Training Centres worldwide





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