

# 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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