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# AWS – Deep Learning on Amazon Web Services

## Description

In this 1-day course, you will learn about AWS's deep learning solutions, including scenarios where deep learning makes sense and how deep learning works. You will learn how to run deep learning models on the cloud using Amazon SageMaker and the MXNet framework. You will also learn to deploy your deep learning models using services like AWS Lambda while designing intelligent systems on AWS.

### Classroom Registration Price (CHF)

900

### Virtual Classroom Registration Price (CHF)

900

## Course Content

### Module 1: Machine learning overview

- A brief history of AI, ML, and DL
- The business importance of ML
- Common challenges in ML
- Different types of ML problems and tasks
- AI on AWS

### Module 2: Introduction to deep learning

- Introduction to DL
- The DL concepts
- A summary of how to train DL models on AWS
- Introduction to Amazon SageMaker

### Module 3: Introduction to Apache MXNet

- The motivation for and benefits of using MXNet and Gluon
- Important terms and APIs used in MXNet
- Convolutional neural networks (CNN) architecture

### Module 4: ML and DL architectures on AWS

- AWS services for deploying DL models (AWS Lambda, AWS IoT Greengrass, Amazon ECS, AWS Elastic Beanstalk)
- Introduction to AWS AI services that are based on DL (Amazon Polly, Amazon Lex, Amazon Rekognition)

## Lab / Exercises

- Official AWS Labs

## Documentation

- Digital courseware included

## Participant profiles

- Developers who are responsible for developing deep learning applications
- Developers who want to understand the concepts behind deep learning and how to implement a deep learning solution on AWS Cloud

**Prerequisites**

- A basic understanding of ML processes
- Knowledge of AWS core services like Amazon EC2 and AWS SDK
- Knowledge of a scripting language like Python

**Objectives**

- Learn how to define machine learning (ML) and deep learning
- Learn how to identify the concepts in a deep learning ecosystem
- Use Amazon SageMaker and the MXNet programming framework for deep learning workloads
- Fit AWS solutions for deep learning deployments

**Niveau**

Intermédiaire

**Duration (in Days)**

1

**Reference**

AWS-15