

Deep Learning on AWS

Course Benefits & Agenda



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Overview

Deep Learning on AWS is a one-day course that introduces you to cloud-based Deep Learning (DL) solutions on Amazon Web Services (AWS). The training will detail how deep learning is useful and explain its different concepts. This course also teaches you how to run your models on the cloud using Amazon SageMaker and MXNet framework. In addition, you will gain a better understanding deploying your deep learning models using AWS services like AWS Lambda and Amazon EC2 Container Service (Amazon ECS) while designing intelligent systems on AWS, based on Deep Learning.

Course Benefits

This course teaches you how to:

- Define machine learning and deep learning.
- Identify the concepts in a deep learning ecosystem.
- Leverage MXNet programming framework for deep learning workloads
- Fit AWS solutions for deep learning deployments.

Agenda

Day 1

Module	Topic
Module 1	A Machine Learning Overview
Module 2	Introduction to Deep Learning
Lab 1	Spinning up an Amazon SageMaker instance and running a multi-layer perceptron neural network model
Module 3	Introduction to Apache MXNet
Lab 2	Running a Convolutional Neural Network (CNN) model to predicting images using CIFAR 10 dataset
Module 4	ML and DL Architectures on AWS
Lab 3	Deploying a Deep Learning model for predicting images using AWS Lambda