

## Deep Learning on AWS

**Duration: 1 Day**    **Course Code: GK7375**    **Delivery Method: Company Event**

### 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, Amazon Elastic Compute Cloud (Amazon EC2)-based Deep Learning Amazon Machine Image (AMI) and MXNet framework. In addition, you will gain a better understanding of 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.

### Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

### Target Audience:

This course is aimed at: Developers responsible for developing Deep Learning applications Developers who want to understand concepts behind Deep Learning and how to implement a Deep Learning solution on AWS

### Objectives:

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

### Prerequisites:

- Basic understanding of machine learning processes
- Basic understanding of AWS core services like Amazon EC2 and knowledge of AWS SDK
- Basic knowledge of a scripting language e.g. Python

### Content:

Introduction to Machine Learning

Introduction to Deep Learning

- Lab 1: Setting up a Deep Learning AMI instance and running a multi-layer perceptron neural network model

Introduction to MXNet on AWS

- Lab 2: Running a Convolutional Neural Network (CNN) model to predicting images using CIFAR 10 dataset

Deploying Smart Applications on AWS

Lab 3: Deploying a Deep Learning model for predicting images using AWS Lambda

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### Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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