London TDM

Artificial Intelligence and Data Science Training Courses

Course Venue: United Kingdom - London

Course Date: From 09 November 2025 To 13 November 2025

Course Place: London Paddington

Course Fees: 7,500 USD

Introduction

This 5-day intensive professional course is designed to provide participants with a comprehensive understanding of the top cloud platforms used for artificial intelligence (AI) and data science: Amazon Web Services (AWS), Microsoft Azure, and Google Cloud Platform (GCP). Participants will gain hands-on experience and the necessary skills to effectively utilize these platforms to advance their projects and career in AI and data science.

Objectives:

- Understand the foundational concepts of cloud computing and its application in AI and data science.
- Gain proficiency in using AWS, Azure, and GCP for AI and data-oriented solutions.
- Learn to deploy, manage, and optimize AI models and data workflows in the cloud.
- Develop an integrated strategy for utilizing cloud services across different platforms.
- Enhance problem-solving skills through real-world case studies and hands-on projects.

Course Outlines

Day 1: Introduction to Cloud Computing for AI and Data Science

- Overview of Cloud Computing and its impact on AI
- Comparison of AWS, Azure, and GCP for AI and Data Science
- Understanding Cloud Services and Deployment Models
- Data Security and Compliance in the Cloud
- Setting up Accounts and Access Management

Day 2: Amazon Web Services (AWS) for AI and Data Science

- Introduction to AWS AI and Machine Learning Services
- Building AI Models using Amazon Sagemaker
- Data Storage and Processing with AWS S3, RDS, and Redshift
- Serverless Architecture: Lambda and API Gateway
- Real-World Applications: Hands-on Lab

Day 3: Microsoft Azure for AI and Data Science

- Overview of Azure AI and Machine Learning Tools
- Deploying Machine Learning Models with Azure Machine Learning
- Data Management using Azure Storage and Cosmos DB
- Understanding Azure Cognitive Services
- Hands-on Session: Implementing a Data Science Solution

Day 4: Google Cloud Platform (GCP) for AI and Data Science

- Getting Started with GCP and AI Platform
- Data Engineering using BigQuery and Google Cloud Storage
- Model Deployment and Monitoring in GCP AI Platform
- Using TensorFlow and AI Hub for Model Development

- Practical Exercise: Analyzing Datasets on GCP

Day 5: Integrating and Optimizing Cloud Services for AI

- Strategy for Multi-Cloud AI and Data Science Solutions
- Advanced Topics: Machine Learning Ops (MLOps)
- Optimizing Cost and Performance in Cloud Platforms
- Case Studies: Success Stories and Best Practices
- Final Project: Designing a Comprehensive Cloud-Based AI Application