

KOENIG SOLUTIONS · COURSE OUTLINE

Azure MLOps

Learn to set up, run and deploy machine learning workflows on Azure using ML Ops pipelines, version control and AKS.

2 Days

DURATION

8

MODULES

27

TOPICS

COURSE OVERVIEW

This 2-day Azure ML Ops course is designed to provide participants with a comprehensive understanding of Azure Machine Learning Operations (ML Ops) and its role in the development and deployment of machine learning models at scale. Participants will learn how to set up an Azure ML Ops environment, create and manage Azure ML experiments and pipelines, version control and collaborate with team members, deploy models to Azure Kubernetes Service (AKS), and monitor and maintain Azure ML deployments. The course will also cover best practices for using Azure ML Ops and provide participants with the skills and knowledge they need to implement Azure ML Ops in their organizations.

WHO THIS COURSE IS FOR

Target Audience: This workshop is designed for data scientists, machine learning engineers, DevOps engineers, and IT professionals who are interested in learning how to implement Azure ML Ops to develop and deploy machine learning models at scale.

Data scientists

Machine learning engineers

DevOps engineers

IT professionals who are interested in learning how to implement Azure ML Ops to develop and deploy machine learning models at scale

PREREQUISITES

- Basic understanding of machine learning concepts
- Programming experience in Python

LEARNING OBJECTIVES

- Explain the purpose and workflow of Azure ML Ops
- Configure an Azure ML workspace and DevOps service connection
- Create and run Azure ML experiments and review results
- Build and monitor Azure ML pipelines
- Configure version control and continuous integration for ML projects
- Deploy a model to Azure Kubernetes Service (AKS)
- Monitor Azure ML deployments with Application Insights
- Apply best practices for scaling and troubleshooting deployments

8 Modules, 27 Topics

DAY 1

01

Introduction to Azure ML Ops

TOPICS

What is Azure ML Ops? · Why do we need Azure ML Ops? · Overview of the Azure ML Ops workflow

02

Setting up the Azure ML Ops Environment

TOPICS

- Creating an Azure ML workspace
- Configuring Azure DevOps and GitHub for Azure ML Ops
- Setting up the Azure ML Ops service connection

03

Creating and Running Azure ML Experiments

TOPICS

Overview of Azure ML Experiments · Creating an Azure ML Experiment · Running an Azure ML Experiment · Viewing experiment results and logs

04

Creating and Managing Azure ML Pipelines

TOPICS

- Introduction to Azure ML Pipelines
- Creating an Azure ML Pipeline
- Running an Azure ML Pipeline
- Monitoring and Troubleshooting Azure ML Pipelines

05

Version Control and Collaboration with Azure ML Ops

TOPICS

- Setting up version control for Azure ML assets
- Collaborating with team members using Azure ML Ops
- Configuring continuous integration and delivery for Azure ML projects

06

Model Deployment with Azure ML Ops

TOPICS

- Introduction to Azure ML Model Deployment
- Creating a scoring script and environment file
- Creating an Azure ML Deployment Target
- Deploying a model to Azure Kubernetes Service (AKS)

07

Monitoring and Maintaining Azure ML Deployments

TOPICS

- Monitoring Azure ML Deployments with Application Insights
- Scaling and Updating Azure ML Deployments
- Troubleshooting Azure ML Deployments

08

Wrap-up and Next Steps

TOPICS

- Best practices for using Azure ML Ops
- Recap of key concepts and features
- Next steps for implementing Azure ML Ops in your organization

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

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