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**Course Name**

# **Advanced AI/ML Deployment and Platform Engineering**

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**Sector Name**

Digital Transformation and Innovation

**Document Type**

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## Advanced AI/ML Deployment and Platform Engineering

### Course Introduction

Deploying AI and ML applications in production requires deep technical expertise in platform engineering, CI/CD pipelines, and cloud-native orchestration. This program covers the design, deployment, and maintenance of AI/ML systems at scale, emphasizing platform engineering, Kubernetes orchestration, and CI/CD for AI/ML workloads.

Participants will gain a comprehensive understanding of production-ready AI/ML pipelines, ensuring reliability, scalability, and maintainability of models and applications.

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## Advanced AI/ML Deployment and Platform Engineering

### Target Audience

- ✓ **Machine Learning Engineers**
- ✓ **AI Engineers / Applied AI Engineers**
- ✓ **MLOps Engineers**

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## Advanced AI/ML Deployment and Platform Engineering

### Learning Objectives

- ✓ Design and implement robust AI/ML production pipelines.
- ✓ Apply platform engineering principles to deploy scalable ML workloads.
- ✓ Use Kubernetes for AI/ML orchestration and workload management.
- ✓ Implement CI/CD pipelines for AI/ML application lifecycle management.
- ✓ Optimize AI/ML deployments for performance, reliability, and scalability.

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## Advanced AI/ML Deployment and Platform Engineering

### Course Outline

#### ✓ DAY 01

##### **Platform Engineering for AI/ML Workloads**

- ✓ Fundamentals of platform engineering
- ✓ Designing scalable, modular AI/ML platforms
- ✓ Resource management and orchestration considerations
- ✓ Integration with enterprise infrastructure
- ✓ Platform monitoring and observability

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### Course Outline

#### ✓ Day 02

##### **Kubernetes for AI/ML Deployment**

- ✓ Kubernetes architecture and core concepts
- ✓ Deploying AI/ML workloads using pods, deployments, and services
- ✓ ConfigMaps, secrets, and resource management
- ✓ Scaling workloads and managing clusters
- ✓ Security best practices for AI/ML in Kubernetes

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### Course Outline

#### ✓ Day 03

##### **CI/CD for AI/ML Applications**

- ✓ Continuous integration pipelines for model training
- ✓ Continuous deployment for AI applications
- ✓ Automated testing and validation for ML models
- ✓ Version control and reproducibility in ML workflows
- ✓ Deployment monitoring and rollback strategies

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### Course Outline

#### ✓ Day 04

##### **Enterprise MLOps**

- ✓ MLOps lifecycle and best practices
- ✓ Model versioning, registry, and reproducibility
- ✓ Monitoring model performance and detecting drift
- ✓ Automation of retraining and deployment cycles
- ✓ Governance and compliance in MLOps

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### Course Outline

#### ✓ Day 05

##### **Advanced AI/ML Deployment Strategies**

- ✓ Cloud-native vs hybrid deployment models
- ✓ Multi-model orchestration and inference pipelines
- ✓ Optimization for low-latency and high-throughput workloads
- ✓ Case studies: production AI/ML systems at scale
- ✓ Capstone discussion: designing an enterprise AI/ML deployment architecture

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## Advanced AI/ML Deployment and Platform Engineering

### Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
March 29, 2027	April 2, 2027	5 days	4950.00 \$	Portugal , Lisbon
Sept. 13, 2026	Sept. 17, 2026	5 days	2150.00 \$	Virtual , Online
April 5, 2026	April 9, 2026	5 days	4250.00 \$	KSA , Riyadh
Nov. 23, 2026	Nov. 27, 2026	5 days	4250.00 \$	UAE , Dubai

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