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Course Name

AI Web & Cloud Deployment

Sector Name
Digital Transformation and Innovation

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AI Web & Cloud Deployment

Course Introduction

Deploying AI models in cloud environments ensures scalability, reliability, and accessibility.This program teaches participants to deploy AI web applications on cloud platforms while optimizing code, managing resources, and monitoring performance. Participants will also learn best practices for maintaining AI services in production environments.

The course blends web development, cloud deployment, and AI production practices to ensure participants can deliver production-ready AI applications.

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Target Audience

✓ Software Developers & Web Developers

✓ Data Scientists & AI/ML Engineers

✓ Cloud Engineers & DevOps Professionals

✓ IT Professionals & System Architects

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Learning Objectives

- ✓ Deploy AI web applications in cloud and hybrid environments.
- ✓ Optimize code for efficient model inference and low latency.
- ✓ Use cloud services to manage and scale AI applications.
- ✓ Implement monitoring and logging for deployed AI applications.
- ✓ Follow best practices for AI application maintenance and versioning.

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AI Web & Cloud Deployment

Course Outline

✓ DAY 01

AI Web Application Architecture

- ✓ Components of AI web applications
- ✓ Understanding model serving endpoints
- ✓ Building APIs with Flask or FastAPI
- ✓ Handling concurrency and multi-user requests

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AI Web & Cloud Deployment

Course Outline

✓ Day 02

Cloud Deployment Basics

- ✓ Cloud platforms for AI deployment (AWS, Azure, GCP)
- ✓ Hosting AI web apps with cloud compute instances
- ✓ Introduction to serverless deployment options
- ✓ Connecting cloud databases and storage for AI apps

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Course Outline

✓ Day 03

Code Optimization for Production

- ✓ Profiling and optimizing Python code
- ✓ Reducing model loading and inference time
- ✓ Using caching and async operations
- ✓ Memory and CPU optimization for AI services

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Course Outline

✓ Day 04

Containerization and Scalable Deployment

- ✓ Dockerizing AI applications
- ✓ Deploying Docker containers to cloud environments
- ✓ Scaling with orchestration tools (basic Kubernetes)
- ✓ Resource management and auto-scaling

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Course Outline

✓ Day 05

Monitoring, Logging, and Maintenance

- ✓ Performance monitoring for AI applications
- ✓ Logging errors and tracking predictions
- ✓ Updating models and continuous integration
- ✓ Security and access management best practices

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 5, 2027	April 9, 2027	5 days	4950.00 $	Netherlands , Amsterdam
Dec. 13, 2026	Dec. 17, 2026	5 days	2150.00 $	Virtual , Online
Oct. 18, 2027	Oct. 22, 2027	5 days	4950.00 $	England , London
May 10, 2027	May 14, 2027	5 days	4250.00 $	UAE , Dubai
July 11, 2027	July 15, 2027	5 days	4250.00 $	KSA , Riyadh

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