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Course Name

Advanced Machine Learning Applications

Sector Name

Artificial Intelligence (AI)

Sector Name

Digital Transformation and Innovation

Document Type

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Advanced Machine Learning Applications

Course Introduction

This **5-day** training course explores advanced machine learning (ML) techniques and their real-world applications across industries. Participants will gain hands-on experience with cutting-edge ML models, deep learning architectures, and AI-driven decision-making.

The course covers key topics such as natural language processing (NLP), computer vision, reinforcement learning, and model optimization. By the end, participants will be equipped to develop, deploy, and optimize ML solutions for complex business challenges.

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Target Audience

- ✓ **Data scientists and machine learning engineers** looking to enhance their expertise.
- ✓ **AI researchers and developers** working on advanced ML applications.
- ✓ **Business analysts and IT professionals** interested in AI-driven insights.
- ✓ **Software engineers and developers** integrating ML into applications.
- ✓ **Decision-makers and strategists** exploring AI for business innovation.

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Learning Objectives

- ✓ Understand advanced ML techniques and their industry applications.
- ✓ Implement deep learning models for tasks such as image recognition and NLP.
- ✓ Optimize ML models for performance, scalability, and accuracy.
- ✓ Explore reinforcement learning and its role in automation and AI decision-making.
- ✓ Apply AI-driven predictive analytics for data-driven business strategies.
- ✓ Address ethical considerations, bias, and model interpretability.
- ✓ Gain practical experience through hands-on coding, case studies, and real-world projects.

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Course Outline

✓ Day 01

Foundations of Advanced Machine Learning

- ✓ Overview of supervised, unsupervised, and reinforcement learning
- ✓ Deep learning architectures: CNNs, RNNs, Transformers
- ✓ Tools and frameworks: TensorFlow, PyTorch, Scikit-Learn
- ✓ Data preprocessing and feature engineering

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Course Outline

✓ Day 02

Natural Language Processing (NLP) & Text Analytics

- ✓ Word embeddings (Word2Vec, GloVe, BERT, GPT)
- ✓ Text classification, sentiment analysis, and chatbots
- ✓ Advanced NLP applications: speech recognition and translation

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Course Outline

✓ Day 03

Computer Vision & Image Processing

- ✓ Convolutional Neural Networks (CNNs) and object detection
- ✓ Image segmentation and facial recognition applications
- ✓ Transfer learning and pre-trained model fine-tuning

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Course Outline

✓ Day 04

Reinforcement Learning & Model Optimization

- ✓ Fundamentals of reinforcement learning and reward-based learning
- ✓ Model tuning, hyperparameter optimization, and performance evaluation
- ✓ Explainability and fairness in ML models

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Course Outline

✓ Day 05

Real-World Applications & Deployment

- ✓ Deploying ML models using cloud platforms and edge computing
- ✓ Future trends in AI, AutoML, and federated learning

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Dec. 13, 2026	Dec. 17, 2026	5 days	4250.00 $	KSA , Riyadh
Oct. 5, 2026	Oct. 9, 2026	5 days	4250.00 $	UAE , Dubai
Feb. 1, 2027	Feb. 5, 2027	5 days	4250.00 $	UAE , Dubai
June 28, 2027	July 2, 2027	5 days	4950.00 $	Spain , Barcelona

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