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Course Name

Artificial Intelligence (AI) Fundamentals & Applications

Sector Name

Information Technology

Document Type

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Artificial Intelligence (AI) Fundamentals & Applications

Course Introduction

Artificial Intelligence (AI) is transforming industries by enabling intelligent automation, predictive analytics, and data-driven decision-making. This course provides participants with a comprehensive understanding of AI concepts, techniques, and real-world applications. Participants will learn how to leverage AI to solve complex problems, optimize business processes, and drive innovation across functions.

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Artificial Intelligence (AI) Fundamentals & Applications

Target Audience

- ✓ Business Professionals and Managers
- ✓ Digital Transformation and Innovation Teams
- ✓ IT and Technology Professionals

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Learning Objectives

- ✓ Understand core AI concepts, techniques, and frameworks.
- ✓ Apply AI models for data analysis, prediction, and decision support.
- ✓ Integrate AI into business processes to improve efficiency and outcomes.
- ✓ Evaluate the ethical, legal, and governance implications of AI.
- ✓ Develop strategies for implementing AI solutions in real-world scenarios.
- ✓ Assess AI performance and optimize models for practical applications.

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Artificial Intelligence (AI) Fundamentals & Applications

Course Outline

✓ DAY 01

Foundations of Artificial Intelligence

- ✓ Introduction to AI: history, trends, and applications
- ✓ Core concepts: machine learning, deep learning, and neural networks
- ✓ AI vs. traditional programming approaches
- ✓ AI tools, frameworks, and environments (Python, TensorFlow, PyTorch)
- ✓ Understanding AI pipelines: data collection, processing, modeling, and evaluation

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Course Outline

✓ Day 02

Data Handling and Preprocessing for AI

- ✓ Data types, sources, and quality considerations
- ✓ Data cleaning, transformation, and normalization
- ✓ Feature selection and feature engineering
- ✓ Exploratory data analysis (EDA) for AI applications
- ✓ Preparing data for supervised and unsupervised learning

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Course Outline

✓ Day 03

Machine Learning and Predictive Modeling

- ✓ Supervised learning: regression and classification
- ✓ Unsupervised learning: clustering and dimensionality reduction
- ✓ Model training, validation, and evaluation metrics
- ✓ Handling overfitting, underfitting, and bias
- ✓ Introduction to reinforcement learning

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Course Outline

✓ Day 04

AI in Practice: Applications and Optimization

- ✓ Natural Language Processing (NLP) and Computer Vision basics
- ✓ AI in business: predictive analytics, recommendation systems, and automation
- ✓ Model optimization techniques and hyperparameter tuning
- ✓ Integrating AI into software and operational workflows
- ✓ Case studies of AI deployment in industry

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Course Outline

✓ Day 05

AI Strategy, Ethics, and Governance

- ✓ Developing an AI strategy aligned with business goals
- ✓ Ethical AI and responsible deployment
- ✓ AI governance, compliance, and risk management
- ✓ Monitoring AI performance and continuous improvement
- ✓ Roadmap for innovation and scaling AI initiatives

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 10, 2027	May 14, 2027	5 days	2150.00 \$	Virtual , Online
Oct. 25, 2026	Oct. 29, 2026	5 days	4250.00 \$	KSA , Riyadh
March 29, 2027	April 2, 2027	5 days	4250.00 \$	UAE , Dubai
Oct. 4, 2027	Oct. 8, 2027	5 days	4950.00 \$	Italy , Rome

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