



Consulting and Training | Reach New Heights

Course Name

AI Development Essentials

Sector Name

Sales, Marketing and Customer Service

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AI Development Essentials

Course Introduction

Building on AI foundational knowledge, this program moves participants to an intermediate level, equipping them to design, implement, and evaluate AI models. Participants learn practical techniques in machine learning, model evaluation, and optimization, enabling them to contribute to real-world AI projects.

Training Course Methodology

The training course is designed to be interactive and participatory, and includes various learning tools to enable the participants to operate effectively and efficiently in a multifunctional environment. The course will use lectures and presentations, exercises, experiential and exposure to real world problems and policy choices confronting delegates.

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Target Audience

- ✓ Junior Data Scientists
- ✓ Product Managers & Innovators
- ✓ Business Leaders & Decision-Makers

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Learning Objectives

- ✓ Build and implement basic machine learning models.
- ✓ Evaluate and optimize AI models for performance.
- ✓ Work with structured and unstructured data for AI applications.
- ✓ Understand key algorithms used in intermediate AI projects.
- ✓ Apply AI knowledge to real-world problem-solving scenarios.

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Course Outline

✓ DAY 01

Overview of Intermediate AI Concepts

- ✓ Recap of AI foundations
- ✓ Introduction to machine learning workflows
- ✓ Feature engineering and selection
- ✓ Understanding model complexity and bias-variance tradeoff
- ✓ Case studies of intermediate AI applications

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Course Outline

✓ Day 02

Supervised Learning Techniques

- ✓ Advanced regression techniques
- ✓ Classification methods (e.g., decision trees, SVMs, k-NN)
- ✓ Model training, testing, and validation
- ✓ Metrics for evaluating supervised learning models
- ✓ Common challenges and troubleshooting

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Course Outline

✓ Day 03

Unsupervised Learning Techniques

- ✓ Clustering algorithms (k-means, hierarchical)
- ✓ Dimensionality reduction (PCA, t-SNE)
- ✓ Association rule learning
- ✓ Evaluating unsupervised models
- ✓ Practical applications and examples

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Course Outline

✓ Day 04

Model Optimization and Deployment

- ✓ Hyperparameter tuning
- ✓ Overfitting and underfitting management
- ✓ Cross-validation techniques
- ✓ Introduction to AI deployment pipelines
- ✓ Best practices for model maintenance

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Course Outline

✓ Day 05

AI Application and Integration

- ✓ Applying AI to business and technical problems
- ✓ Using intermediate AI models in projects
- ✓ Ethical and responsible AI considerations
- ✓ Hands-on mini-project or scenario analysis
- ✓ Planning next steps for advanced AI skill development

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 9, 2027	May 13, 2027	5 days	4250.00 \$	KSA , Riyadh
Oct. 18, 2026	Oct. 22, 2026	5 days	2150.00 \$	Virtual , Online
April 5, 2027	April 9, 2027	5 days	4950.00 \$	Greece , Athens
Aug. 9, 2027	Aug. 13, 2027	5 days	4250.00 \$	UAE , Dubai

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