



Consulting and Training | Reach New Heights

**Course Name**

# Data Science Development

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**Sector Name**

Information Technology

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## Data Science Development

### Course Introduction

Data Science Development focuses on building end-to-end data solutions that transform raw data into predictive insights and business value. This course equips participants with the technical, analytical, and strategic skills required to design, develop, deploy, and optimize data science models. It covers the full lifecycle from data acquisition and preparation to machine learning development, evaluation, and operationalization in real-world environments.

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## Data Science Development

### Target Audience

- ✓ Business Intelligence Professionals
- ✓ IT and Software Professionals
- ✓ Statisticians and Research Analysts
- ✓ Engineers and Technical Specialists

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## Data Science Development

### Learning Objectives

- ✓ Understand the end-to-end data science development lifecycle.
- ✓ Collect, clean, and prepare structured and unstructured data.
- ✓ Develop machine learning models for prediction and classification.
- ✓ Evaluate and optimize models using appropriate performance metrics.
- ✓ Deploy and monitor data science solutions in production environments.
- ✓ Translate analytical outcomes into actionable business insights.

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## Data Science Development

### Course Outline

#### ✓ DAY 01

##### **Foundations of Data Science Development**

- ✓ Overview of the data science lifecycle
- ✓ Types of data: structured, unstructured, and big data
- ✓ Data collection methods and sources
- ✓ Data preprocessing and cleaning techniques
- ✓ Introduction to programming environments for data science

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## Data Science Development

### Course Outline

#### ✓ Day 02

##### **Exploratory Data Analysis (EDA) and Feature Engineering**

- ✓ Statistical foundations for data science
- ✓ Data visualization for exploration and insight generation
- ✓ Identifying trends, correlations, and anomalies
- ✓ Feature selection and feature engineering techniques
- ✓ Preparing datasets for machine learning models

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## Data Science Development

### Course Outline

#### ✓ Day 03

##### **Machine Learning Model Development**

- ✓ Supervised vs. unsupervised learning
- ✓ Regression, classification, and clustering algorithms
- ✓ Model training and validation techniques
- ✓ Avoiding overfitting and underfitting
- ✓ Hyperparameter tuning fundamentals

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## Data Science Development

### Course Outline

#### ✓ Day 04

##### **Model Evaluation and Optimization**

- ✓ Performance metrics (accuracy, precision, recall, F1-score, ROC)
- ✓ Cross-validation techniques
- ✓ Model comparison and selection strategies
- ✓ Bias, variance, and fairness considerations
- ✓ Improving model performance through optimization

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## Data Science Development

### Course Outline

#### ✓ Day 05

##### **Deployment, Monitoring, and Business Integration**

- ✓ Model deployment concepts and tools
- ✓ Integrating models into business workflows
- ✓ Monitoring model performance in production
- ✓ Continuous improvement and retraining strategies
- ✓ Communicating insights to stakeholders for decision-making

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## Data Science Development

### Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 28, 2026	July 2, 2026	5 days	4250.00 \$	KSA , Riyadh
Dec. 6, 2026	Dec. 10, 2026	5 days	2150.00 \$	Virtual , Online
March 29, 2027	April 2, 2027	5 days	4250.00 \$	UAE , Dubai
Aug. 31, 2026	Sept. 4, 2026	5 days	4950.00 \$	Greece , Athens

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