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**Course Name**

# Certificate in Data Science (CDS)

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**Sector Name**

Information Technology

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## Certificate in Data Science (CDS)

### Course Introduction

Data Science is at the core of modern business decision-making, enabling organizations to extract insights, detect patterns, and make data-driven decisions. This course provides participants with the foundational and practical skills required to collect, process, analyze, and visualize data effectively.

**The training covers** the end-to-end data science lifecycle, including statistical analysis, machine learning, and reporting, preparing participants to apply data science in real-world business contexts.

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## Certificate in Data Science (CDS)

### Target Audience

- ✓ IT and Software Professionals
- ✓ Engineers and Technical Professionals

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## Certificate in Data Science (CDS)

### Learning Objectives

- ✓ Understand the data science lifecycle and its applications.
- ✓ Collect, clean, and structure data for analysis.
- ✓ Apply statistical and exploratory data analysis techniques.
- ✓ Build and evaluate predictive models using machine learning algorithms.
- ✓ Visualize data effectively to communicate insights.
- ✓ Apply data-driven decision-making in business and operational contexts.

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## Certificate in Data Science (CDS)

### Course Outline

#### ✓ DAY 01

##### **Introduction to Data Science and Data Handling**

- ✓ Overview of data science, applications, and tools
- ✓ Data types, sources, and collection methods
- ✓ Data preprocessing: cleaning, transformation, and normalization
- ✓ Introduction to Python/R for data analysis
- ✓ Data exploration and summary statistics

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## Certificate in Data Science (CDS)

### Course Outline

#### ✓ Day 02

##### **Exploratory Data Analysis (EDA) and Visualization**

- ✓ Principles of exploratory data analysis
- ✓ Identifying trends, correlations, and anomalies
- ✓ Visualization techniques and libraries (Matplotlib, Seaborn, Power BI)
- ✓ Feature engineering and selection
- ✓ Storytelling with data: insights for decision-making

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## Certificate in Data Science (CDS)

### Course Outline

#### ✓ Day 03

##### **Statistical Analysis and Predictive Modeling**

- ✓ Key statistical concepts for data science (distributions, hypothesis testing)
- ✓ Regression analysis and correlation studies
- ✓ Introduction to classification and clustering algorithms
- ✓ Model training, validation, and evaluation metrics
- ✓ Handling overfitting, underfitting, and bias

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## Certificate in Data Science (CDS)

### Course Outline

#### ✓ Day 04

##### **Machine Learning and Advanced Analytics**

- ✓ Supervised vs. unsupervised learning algorithms
- ✓ Decision trees, random forests, k-means clustering
- ✓ Introduction to AI and predictive analytics in data science
- ✓ Model deployment concepts and workflow integration
- ✓ Using data to identify patterns, trends, and business opportunities

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## Certificate in Data Science (CDS)

### Course Outline

#### ✓ Day 05

##### **Reporting, Insights, and Decision Support**

- ✓ Translating data analysis into actionable business insights
- ✓ Data visualization for reporting and dashboards
- ✓ Communicating results to stakeholders effectively
- ✓ Case studies of real-world data science applications
- ✓ Roadmap for continuous learning and practical application of data science

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## Certificate in Data Science (CDS)

### Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 17, 2026	May 21, 2026	5 days	2150.00 \$	Virtual , Online
Nov. 1, 2026	Nov. 5, 2026	5 days	4250.00 \$	KSA , Riyadh
March 29, 2027	April 2, 2027	5 days	4250.00 \$	UAE , Dubai
Aug. 31, 2026	Sept. 4, 2026	5 days	4950.00 \$	Netherlands , Amsterdam

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