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Course Name

Data Analysis for AI-Driven Business Intelligence

Sector Name

Information Technology

Document Type

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Data Analysis for AI-Driven Business Intelligence

Course Introduction

Data analysis is a critical component of business intelligence, enabling organizations to extract insights, identify trends, and make informed decisions.

This course equips participants with advanced analytical techniques, AI-driven methods, and reporting tools to uncover patterns and deliver actionable business insights.

Participants will learn how to integrate advanced AI algorithms into data analysis, enhance reporting effectiveness, and support strategic decision-making.

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Data Analysis for AI-Driven Business Intelligence

Target Audience

- ✓ Business Intelligence (BI) Professionals
- ✓ Managers and Decision Makers
- ✓ Digital Transformation and Innovation Teams
- ✓ IT and Data Professionals

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Data Analysis for AI-Driven Business Intelligence

Learning Objectives

- ✓ Apply advanced data analysis techniques to business intelligence problems.
- ✓ Detect patterns, trends, and anomalies using AI-driven analytics.
- ✓ Design and generate insightful reports and dashboards for decision-making.
- ✓ Integrate AI algorithms to enhance predictive and prescriptive analytics.
- ✓ Communicate data insights effectively to stakeholders.
- ✓ Use data analysis to inform strategic business and operational decisions.

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Data Analysis for AI-Driven Business Intelligence

Course Outline

✓ DAY 01

Foundations of Data Analysis for Business Intelligence

- ✓ Principles of data analysis and business intelligence
- ✓ Overview of AI in data analytics
- ✓ Understanding datasets, metrics, and KPIs
- ✓ Data cleaning, validation, and preprocessing
- ✓ Aligning analysis with business goals and stakeholder needs

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Data Analysis for AI-Driven Business Intelligence

Course Outline

✓ Day 02

Exploratory Data Analysis (EDA) and Pattern Detection

- ✓ Techniques for summarizing and visualizing data
- ✓ Identifying trends, correlations, and anomalies
- ✓ Using statistical methods to uncover insights
- ✓ Introduction to AI-driven pattern detection
- ✓ Preparing data for advanced modeling and reporting

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Data Analysis for AI-Driven Business Intelligence

Course Outline

✓ Day 03

Advanced AI Algorithms for Analysis

- ✓ Overview of AI algorithms for predictive and prescriptive analytics
- ✓ Applying clustering, regression, and classification to business data
- ✓ Detecting hidden patterns and forecasting outcomes
- ✓ Validating AI-driven insights for reliability and accuracy
- ✓ Integrating algorithm outputs into business intelligence workflows

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Data Analysis for AI-Driven Business Intelligence

Course Outline

✓ Day 04

Reporting Techniques and Data Visualization

- ✓ Principles of effective reporting and storytelling with data
- ✓ Designing dashboards and visual reports for business intelligence
- ✓ Communicating insights to stakeholders using visual analytics
- ✓ Linking AI insights to decision-making and strategy
- ✓ Interactive reporting techniques for engagement and clarity

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Data Analysis for AI-Driven Business Intelligence

Course Outline

✓ Day 05

Actionable Insights and Strategic Decision Support

- ✓ Translating analysis into business recommendations
- ✓ Using AI-enhanced insights to drive operational and strategic decisions
- ✓ Monitoring trends and KPIs over time for continuous improvement
- ✓ Establishing feedback loops for iterative analysis and reporting
- ✓ Developing a roadmap for AI-driven business intelligence initiatives

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Data Analysis for AI-Driven Business Intelligence

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 2, 2027	May 6, 2027	5 days	4250.00 \$	KSA , Riyadh
Oct. 11, 2027	Oct. 15, 2027	5 days	2150.00 \$	Virtual , Online
March 29, 2027	April 2, 2027	5 days	4950.00 \$	Greece , Athens
Aug. 30, 2027	Sept. 3, 2027	5 days	4250.00 \$	UAE , Dubai
Oct. 11, 2027	Oct. 15, 2027	5 days	4250.00 \$	UAE , Abu Dhabi

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