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Course Name

AI-Driven Power BI

Sector Name

Information Technology

Document Type

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AI-Driven Power BI

Course Introduction

In the era of AI, leveraging advanced visualization and analysis techniques is essential for detecting patterns, trends, and insights in large datasets. This course equips participants with expert-level Power BI skills to visualize complex data, identify patterns, and integrate AI-driven analytics. Participants will learn to apply advanced techniques to support predictive insights, business decision-making, and process optimization.

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Target Audience

- ✓ Data Scientists
- ✓ Finance and Operations Analysts
- ✓ Managers and Decision Makers
- ✓ IT and Data Platform Specialists

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Learning Objectives

- ✓ Design advanced Power BI dashboards to visualize complex datasets.
- ✓ Detect patterns, trends, and anomalies using data visualization and analytics techniques.
- ✓ Apply AI-driven insights to support decision-making and process optimization.
- ✓ Integrate advanced AI algorithms with Power BI for predictive analytics.
- ✓ Communicate insights effectively to stakeholders using interactive visualizations.
- ✓ Monitor and evaluate patterns to drive continuous improvement and innovation.

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Course Outline

✓ DAY 01

Advanced Data Visualization Concepts

- ✓ Principles of advanced visualization in Power BI
- ✓ Identifying patterns, anomalies, and trends in complex datasets
- ✓ Selecting the right visual for AI-driven insights
- ✓ Interactive dashboards and real-time data visualization
- ✓ Aligning visualizations with business objectives and stakeholder needs

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Course Outline

✓ Day 02

Data Preparation and Pattern Detection

- ✓ Preparing and cleaning large datasets for advanced analysis
- ✓ Using DAX for calculations, aggregations, and pattern metrics
- ✓ Data modeling techniques for AI-friendly datasets
- ✓ Detecting correlations, outliers, and trends
- ✓ Linking visualization to actionable business insights

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Course Outline

✓ Day 03

Integrating AI Algorithms with Power BI

- ✓ Overview of AI algorithms for predictive and prescriptive analytics
- ✓ Using Power BI AI features: Cognitive Services, AutoML, and AI visuals
- ✓ Embedding machine learning insights into dashboards
- ✓ Pattern detection using clustering, forecasting, and anomaly detection
- ✓ Validating AI-driven patterns for reliability and accuracy

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Course Outline

✓ Day 04

Advanced Analytics and Scenario Simulation

- ✓ Creating advanced metrics and key performance indicators
- ✓ Scenario analysis and forecasting for decision support
- ✓ Visual storytelling with AI insights
- ✓ Combining multiple datasets for cross-functional analysis
- ✓ Leveraging patterns to predict outcomes and optimize processes

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Course Outline

✓ Day 05

Insights Communication and Business Impact

- ✓ Designing dashboards for executive and stakeholder engagement
- ✓ Highlighting actionable patterns and insights effectively
- ✓ Translating AI-driven visualization into strategic recommendations
- ✓ Monitoring trends and patterns over time for continuous improvement
- ✓ Roadmap for AI-enhanced data visualization and decision-making

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Sept. 27, 2027	Oct. 1, 2027	5 days	2150.00 \$	Virtual , Online
Dec. 7, 2026	Dec. 11, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
April 18, 2027	April 22, 2027	5 days	4250.00 \$	KSA , Riyadh
March 29, 2027	April 2, 2027	5 days	5950.00 \$	USA , Texas

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