



Consulting and Training | Reach New Heights

Course Name

AI-Powered Data Analysis for Business

Sector Name

Artificial Intelligence (AI)

Document Type

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AI-Powered Data Analysis for Business

Course Introduction

Business professionals increasingly work with data but often face a gap between having information and being able to extract useful meaning from it. Artificial intelligence can make data exploration and analysis more accessible by helping users formulate analytical questions, examine patterns, compare performance, identify anomalies, and explain findings. However, fluent AI-generated explanations can also create false confidence when calculations, assumptions, or interpretations are not properly verified.

Boost Consulting & Training offers this course to develop practical capability in using AI throughout the business data analysis journey. Participants learn to translate business questions into analytical tasks, prepare and explore data, use AI to support analysis, investigate patterns and performance drivers, validate AI-generated interpretations, visualize findings, and communicate business meaning. The course focuses on analytical thinking and business applications rather than programming or advanced data science.

The main concept of this course is to combine AI-assisted analysis with human analytical judgement so that business data can be explored faster without sacrificing the accuracy and credibility of the conclusions drawn from it.

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AI-Powered Data Analysis for Business

Target Audience

- ✓ Business analysts and reporting professionals
- ✓ Finance, operations, sales, and performance specialists
- ✓ Managers who use data to understand business performance
- ✓ Professionals seeking AI-assisted analytical capability without advanced programming requirements

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Learning Objectives

- ✓ Translate business questions into clear data analysis requirements.
- ✓ Assess and prepare business data before using AI-assisted analysis.
- ✓ Use AI to explore datasets and generate relevant analytical questions.
- ✓ Identify trends, patterns, anomalies, and performance differences in business data.
- ✓ Investigate possible drivers behind observed results.
- ✓ Validate AI-generated calculations, interpretations, and analytical conclusions.
- ✓ Develop clear visual and narrative explanations of analytical findings.
- ✓ Convert validated data insights into meaningful business implications.

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AI-Powered Data Analysis for Business

Course Outline

✓ DAY 01

Turning Business Questions into Data Questions

Framing the Analysis

- ✓ Define the business problem, decision context, and information required from the data.
- ✓ Translate broad management questions into specific analytical questions.
- ✓ Identify relevant measures, dimensions, comparisons, and time periods.

Understanding the Data before Analysis

- ✓ Examine dataset structure, variables, definitions, and relationships.
- ✓ Identify missing values, inconsistent records, duplicates, and other quality concerns.
- ✓ Complete a Data Readiness Challenge before beginning AI-assisted analysis.

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Course Outline

✓ DAY 02

Exploring Business Data with AI

Accelerating Data Exploration

- ✓ Use AI to summarize datasets and identify useful areas for investigation.
- ✓ Generate analytical questions based on available business information.
- ✓ Explore distributions, trends, segments, and changes across data.

Finding Patterns and Exceptions

- ✓ Identify unusual values, unexpected movements, concentrations, and performance gaps.
- ✓ Compare products, customers, locations, periods, or other relevant business segments.
- ✓ Complete an AI-Assisted Data Exploration Lab using a realistic business dataset.

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Course Outline

✓ DAY 03

Investigating What Drives the Results

Moving from Observation to Explanation

- ✓ Develop possible explanations for patterns identified in the data.
- ✓ Break aggregate results into contributing components and business drivers.
- ✓ Use AI to explore alternative interpretations rather than accepting the first explanation.

Testing Analytical Interpretations

- ✓ Distinguish correlation, association, and evidence of causation.
- ✓ Identify assumptions and missing context that may affect conclusions.
- ✓ Complete a Business Driver Investigation involving competing explanations for the same performance result.

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Course Outline

✓ DAY 04

Validating AI-Generated Analysis

Checking Calculations and Evidence

- ✓ Verify AI-generated calculations against source data and expected logic.
- ✓ Detect unsupported statements, incorrect comparisons, and inconsistent analytical results.
- ✓ Determine when additional analysis or external information is required.

Challenging the AI Analyst

- ✓ Test conclusions using alternative questions, segments, time periods, and assumptions.
- ✓ Identify situations where persuasive explanations are not supported by sufficient evidence.
- ✓ Complete an Analytical Validation Challenge containing intentionally plausible but flawed AI conclusions.

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Course Outline

✓ DAY 05

Turning Analysis into Business Insight

Visualizing the Findings

- ✓ Select charts and visual structures appropriate to the analytical message.
- ✓ Highlight meaningful comparisons and patterns without distorting the underlying data.
- ✓ Combine visual evidence with concise explanations of what the results show.

Communicating Business Meaning

- ✓ Distinguish analytical findings from interpretations and recommendations.
- ✓ Explain implications, limitations, and areas requiring further investigation.
- ✓ Complete an AI-Powered Business Analysis Case from business question and dataset preparation through exploration, validation, visualization, and final business insight.

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Dec. 21, 2026	Dec. 25, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
Jan. 25, 2027	Jan. 29, 2027	5 days	4250.00 \$	UAE , Dubai
June 20, 2027	June 24, 2027	5 days	4250.00 \$	KSA , Riyadh
Aug. 30, 2027	Sept. 3, 2027	5 days	5950.00 \$	Switzerland , Lausanne

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