



AI Tools for Data Analysis, Automation and Smart Decisions

19 – 23 September 2027
Amman (Jordan)



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Introduction

This AI Tools for Data Analysis, Automation and Smart Decisions course helps participants understand how to apply AI tools for data analysis, automation, and smarter business decisions in modern professional settings. It explores the practical role of AI in turning raw information into clear insights, reducing repetitive work, and improving the speed and accuracy of everyday analysis workflows. Participants will examine how AI-powered platforms support reporting, visualization, forecasting, and decision support across different organizational functions. The program highlights how intelligent automation can improve efficiency while strengthening the quality of human judgment in business environments. It uses AI responsibly, interpreting outputs critically, and selecting the right tools for the right task. It builds a strong theoretical foundation for using AI in data-driven work, business intelligence, and strategic decision-making.

Targeted Groups

This AI Tools for Data Analysis, Automation and Smart Decisions training targets professionals seeking knowledge and skills:

- Data analysts and reporting specialists.
- Business intelligence and dashboard users.
- Managers handling data-driven decisions.
- Operations teams improve workflow efficiency.
- Professionals exploring AI for business analysis.
- Trainers and consultants supporting digital transformation.

Course Objectives

Participants will achieve the following objectives by completing the AI Tools for Data Analysis, Automation and Smart Decisions course:

- Understand core AI concepts in analysis and automation.
- Identify suitable AI tools for data tasks.
- Apply AI to organize, clean, and summarize data.
- Improve reporting through automated insights and dashboards.
- Interpret patterns to support stronger business decisions.
- Recognize ethical, practical, and strategic uses of AI.
- Build confidence in using AI for smarter work processes.
- Connect analysis results with operational and managerial needs.

Targeted Competencies

Participants will gain the following competencies during the AI Tools for Data Analysis, Automation and Smart Decisions program:

- Data interpretation and insight extraction.
- AI tool selection and use.
- Workflow automation thinking.
- Analytical problem-solving.
- Decision support evaluation.
- Reporting and visualization awareness.
- Pattern recognition and trend analysis.
- Responsible AI application in professional settings.

Studying Scenarios

In this AI Tools for Data Analysis, Automation and Smart Decisions training, participants develop skills through the following scenarios:

- Reviewing sales data to identify trends and anomalies.
- Using AI to summarize large reports quickly.
- Automating routine reporting tasks across departments.
- Comparing business options using AI-supported analysis.
- Evaluating dashboards for executive decision-making.
- Testing how AI improves forecasting and planning.

Course Content

Unit 1: Foundations of AI in Data Analysis

- Define AI tools and their role in modern data analysis.
- Distinguish between traditional analysis and AI-assisted analysis.
- Explain how AI supports structured and unstructured data processing.
- Identify the main stages of an AI data analysis workflow.
- Recognize the value of natural language interaction with data.
- Explore how generative AI supports analysis, summarization, and reporting.
- Understand the relationship between data quality and AI output quality.
- Discuss the strengths and limits of AI in analytical environments.

Unit 2: AI Tools for Data Preparation and Automation

- Examine how AI tools assist in cleaning and organizing datasets.
- Identify repetitive tasks suitable for data automation.
- Describe how AI supports classification, tagging, and sorting.
- Review tools that reduce manual effort in spreadsheet work.
- Explain automated extraction of insights from large data sets.
- Explore prompt-based analysis to complete tasks faster.
- Recognize the role of AI in reducing errors and saving time.
- Link automation practices to higher productivity and better focus.

Unit 3: AI for Visualization, Reporting, and Pattern Discovery

- Explain how AI improves data visualization and dashboard creation.
- Identify patterns, relationships, and anomalies through AI support.
- Explore the use of AI for summarizing charts and reports.
- Compare different ways to present insights for different audiences.
- Understand how AI helps simplify complex data stories.
- Evaluate how automated reporting supports operational clarity.
- Discuss the value of interactive and intelligent visual summaries.
- Connect visualization choices with communication effectiveness.

Unit 4: Smart Decisions Through Predictive and Prescriptive Insights

- Describe how AI supports predictive analytics in business contexts.
- Understand how forecasts inform planning and risk reduction.
- Examine how decision models improve scenario comparison.
- Identify key factors that influence smart business decisions.
- Explore the role of AI in prioritizing actions and resources.
- Review how recommendation systems support operational choices.
- Interpret insights for faster and more confident decisions.
- Relate AI-driven analysis to strategic and tactical thinking.

Unit 5: Responsible Use, Governance, and Workplace Integration

- Explain the importance of responsible AI use in professional work.
- Identify risks related to bias, privacy, and inaccurate outputs.
- Understand the need for review, validation, and human oversight.
- Discuss governance practices for the secure adoption of AI.
- Explore practical methods for integrating AI into daily workflows.
- Recognize how teams can build trust in AI-supported decisions.
- Evaluate readiness for AI-enabled transformation in organizations.
- Summarize best practices for sustainable and ethical AI use.



Final Insights & Key Takeaways

AI tools are reshaping how professionals analyze data, automate repetitive tasks, and make informed decisions with greater speed and confidence. Mastery of these methods strengthens analytical thinking, improves productivity, and supports smarter business outcomes across modern workplaces.