

Course No. 1262

AI for Data-Driven Decision Making Training Course

DATA SCIENCE & AI ANALYTICS
ARTIFICIAL INTELLIGENCE & APPLICATIONS

DURATION

5 Days

DELIVERY

Classroom



Course Overview

The AI for Data-Driven Decision Making Training Course is designed to equip executives, managers, and professionals with the knowledge and practical skills required to leverage Artificial Intelligence (AI) for making faster, smarter, and evidence-based business decisions. As organizations continue to generate increasing volumes of operational, financial, customer, and strategic data, the ability to transform this information into actionable insights has become a critical capability for achieving operational excellence, innovation, and sustainable growth. This course provides a comprehensive framework for integrating AI-powered analytics into organizational decision-making processes, enabling leaders to replace intuition-based decisions with data-driven strategies that improve organizational performance.

Artificial Intelligence is transforming decision-making by enabling organizations to automate data analysis, identify hidden patterns, forecast future outcomes, detect anomalies, generate intelligent recommendations, and deliver real-time business insights. Throughout the AI for Data-Driven Decision Making Training Course, participants will explore how Machine Learning, Generative AI, Predictive Analytics, Natural Language Processing (NLP), Business Intelligence (BI), Data Mining, and Intelligent Automation can improve strategic planning, operational management, financial forecasting, risk assessment, customer experience, and performance management. The course demonstrates how AI empowers decision-makers to make informed, timely, and objective decisions across every level of the organization.

The course combines internationally recognized decision-making methodologies with practical AI applications relevant to government entities, ministries, public sector organizations, financial institutions, oil and gas companies, healthcare organizations, manufacturing enterprises, telecommunications providers, logistics companies, utilities, and multinational corporations. Participants will learn how to collect, prepare, analyze, visualize, and interpret business data, develop AI-supported decision models, evaluate alternative scenarios, measure business performance, and communicate analytical insights effectively to stakeholders. The program also addresses data governance, data quality, cybersecurity, privacy protection, regulatory compliance, AI governance, and ethical AI to ensure responsible, transparent, and trustworthy decision-making.

Combining strategic concepts with practical implementation, this course enables executives, managers, analysts, and technical professionals to successfully establish AI-powered decision-making capabilities across their organizations. Through practical workshops, business simulations, real-world case studies, and implementation exercises, participants will develop the competencies

required to improve organizational agility, strengthen business intelligence, optimize resource allocation, enhance operational performance, accelerate digital transformation, and build a sustainable data-driven organizational culture.

Objectives

- Analyze organizational decision-making processes to identify opportunities for AI-powered improvements during the course.
- Develop a comprehensive understanding of data-driven decision-making methodologies and Artificial Intelligence technologies.
- Evaluate operational, financial, customer, and strategic data using advanced analytical techniques.
- Apply Artificial Intelligence, Machine Learning, Predictive Analytics, and Generative AI to support evidence-based decision-making.
- Design AI-enabled decision support frameworks that improve strategic planning and organizational performance.
- Improve forecasting accuracy, business intelligence, operational efficiency, and executive reporting through AI-powered analytics.
- Strengthen governance, data quality, cybersecurity, privacy protection, regulatory compliance, AI governance, and ethical AI practices.
- Implement AI-powered KPI frameworks, executive dashboards, predictive analytics, and performance measurement systems.
- Assess organizational readiness for enterprise AI-driven decision-making adoption.
- Align AI-powered decision-making initiatives with digital transformation strategies, innovation, operational excellence, and long-term organizational objectives.

Who Should Attend

The AI for Data-Driven Decision Making Training Course is designed for executives, board members, department managers, digital transformation leaders, operations managers, finance managers, strategy managers, business managers, IT managers, project managers, business analysts, data analysts, business intelligence professionals, performance management specialists, and decision-makers responsible for improving organizational performance through evidence-based management.

The course is particularly valuable for professionals working in government entities, ministries, public sector organizations, central banks, commercial banks, financial institutions, insurance companies, oil and gas organizations, healthcare providers, manufacturing companies, telecommunications providers, logistics organizations, utilities, educational institutions, and multinational corporations implementing enterprise AI and digital transformation initiatives.

It is also suitable for data scientists, BI developers, ERP specialists, reporting professionals, management consultants, innovation managers, quality specialists, risk management professionals, AI implementation teams, researchers, and professionals seeking to strengthen their expertise in AI-powered decision support and enterprise analytics.

Learning Outcomes

- By the end of the AI for Data-Driven Decision Making Training Course, participants will be able to:
- Explain the strategic role of Artificial Intelligence in modern data-driven decision-making.
- Collect, prepare, organize, and analyze business data to support informed executive decisions.
- Apply Machine Learning, Generative AI, Predictive Analytics, Natural Language Processing, and Data Mining techniques to solve complex business challenges.
- Design AI-powered decision support models that improve strategic planning, forecasting, and operational performance.
- Develop executive dashboards, KPI scorecards, and analytical reports that communicate actionable business insights.
- Integrate AI technologies with Business Intelligence platforms, enterprise reporting systems, and decision-support solutions.
- Apply best practices for data governance, AI governance, cybersecurity, privacy protection, regulatory compliance, and ethical AI.
- Measure organizational performance using AI-powered dashboards, predictive KPIs, analytical reporting, and executive performance frameworks.
- Develop implementation roadmaps for enterprise AI-driven decision-making initiatives.
- Lead AI-enabled organizational transformation that strengthens business intelligence, innovation, digital transformation, operational excellence, and sustainable organizational success.

Course Outline

DAY 01

Foundations of AI and Data-Driven Decision Making

- Introduction to data-driven decision-making
- Fundamentals of Artificial Intelligence for business leaders
- Types of business data and enterprise analytics
- Decision-making frameworks supported by AI

PRACTICAL WORKSHOP

Identifying AI opportunities within organizational decision-making processes

DAY 02

Data Management and Business Intelligence

- Enterprise data collection and management
- Data preparation, cleansing, and quality management
- Exploratory data analysis and business intelligence fundamentals
- KPI development, executive dashboards, and reporting

PRACTICAL WORKSHOP

Preparing business data for AI-powered decision support

DAY 03

AI-Powered Decision Support Technologies

- Machine Learning applications for decision-making
- Predictive analytics and business forecasting
- Natural Language Processing and text analytics
- Integrating AI with Business Intelligence and enterprise decision-support systems

DAY 03 — CONTINUED

PRACTICAL WORKSHOP

Developing AI-powered decision models for real-world business scenarios

DAY 04**Governance, Risk Management, and Performance Measurement**

- Data governance and enterprise data quality management
- AI governance, cybersecurity, privacy protection, and regulatory compliance
- Ethical AI and responsible decision-making practices
- Performance measurement using AI-powered KPIs, executive dashboards, and predictive analytics

PRACTICAL WORKSHOP

Designing governance frameworks and executive performance dashboards

DAY 05**Enterprise AI Decision-Making Strategy**

- Planning enterprise AI-powered decision-making initiatives
- Building a data-driven organizational culture
- Future trends in Artificial Intelligence, intelligent decision support, business intelligence, and advanced analytics
- Measuring business value and return on investment from AI-powered decision-making initiatives

FINAL WORKSHOP

Developing a comprehensive AI for Data-Driven Decision Making implementation roadmap, including enterprise decision strategy, data governance framework, AI governance model, KPI architecture, executive dashboard framework, stakeholder engagement strategy, implementation roadmap, and organizational action plan to strengthen executive decision-making, improve business intelligence, accelerate digital transformation, optimize operational performance, and achieve sustainable organizational excellence.



Register or Request More Information

Course page: <https://quest-training.com/courses/ai-for-data-driven-decision-making-training-course>

Website: <https://quest-training.com>

Email: info@quest-training.com

Phone: +905016771440

