

Course No. 1261

Business Analytics with AI Training Course

DATA SCIENCE & AI ANALYTICS
ARTIFICIAL INTELLIGENCE & APPLICATIONS

DURATION

5 Days

DELIVERY

Classroom



Course Overview

The Business Analytics with AI Training Course is designed to equip professionals with the knowledge and practical skills required to leverage Artificial Intelligence (AI) to transform business data into strategic insights that drive informed decision-making, improve operational efficiency, and accelerate digital transformation. As organizations increasingly rely on data to guide strategic initiatives, optimize processes, and enhance customer experiences, AI-powered business analytics has become a critical capability for achieving sustainable competitive advantage. This course provides a comprehensive framework for integrating Artificial Intelligence into business analytics to improve forecasting, performance management, operational excellence, and enterprise-wide decision support.

Artificial Intelligence is transforming business analytics by enabling organizations to automate data preparation, identify hidden patterns, predict future outcomes, generate intelligent recommendations, and provide real-time business insights. Throughout the Business Analytics with AI Training Course, participants will explore how Machine Learning, Generative AI, Predictive Analytics, Natural Language Processing (NLP), Data Mining, Business Intelligence (BI), and intelligent automation enhance analytical capabilities across finance, operations, human resources, sales, marketing, procurement, customer service, and strategic planning. The course demonstrates how AI empowers organizations to convert raw data into actionable intelligence that supports innovation and business growth.

The course combines internationally recognized business analytics methodologies with practical AI applications relevant to government entities, ministries, public sector organizations, financial institutions, oil and gas organizations, healthcare providers, telecommunications companies, manufacturing organizations, logistics providers, utilities, and multinational enterprises. Participants will learn how to collect, prepare, analyze, and visualize business data, develop predictive analytical models, build executive dashboards, evaluate organizational performance, and communicate analytical insights to stakeholders. The program also addresses data governance, data quality, cybersecurity, privacy protection, regulatory compliance, ethical AI, and responsible analytics practices to ensure secure, scalable, and trustworthy implementation.

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

strengthen business intelligence, improve forecasting accuracy, optimize operational performance, enhance executive decision-making, support digital transformation, and establish a sustainable data-driven organizational culture.

Objectives

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

Who Should Attend

The Business Analytics with AI Training Course is designed for executives, department managers, digital transformation leaders, business managers, operations managers, finance managers, strategy managers, IT managers, project managers, business analysts, data analysts, business intelligence professionals, performance management specialists, and decision-makers responsible for improving organizational performance through data-driven strategies.

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 analytics and AI 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 business analytics and enterprise decision support.

Learning Outcomes

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

Course Outline

DAY 01

Foundations of Business Analytics and Artificial Intelligence

- Introduction to business analytics and enterprise decision-making
- Fundamentals of Artificial Intelligence in business analytics
- Types of business data and analytical frameworks
- Business analytics lifecycle and enterprise value

PRACTICAL WORKSHOP

Identifying AI opportunities across organizational business functions

DAY 02

Data Preparation and Business Intelligence

- Enterprise data collection and data management
- Data preparation, cleansing, and quality improvement
- Exploratory Data Analysis (EDA) and descriptive analytics
- KPI development, dashboard design, and executive reporting

PRACTICAL WORKSHOP

Preparing business datasets and developing AI-assisted dashboards

DAY 03

AI-Powered Business Analytics Techniques

- Machine Learning applications in business analytics
- Predictive analytics and business forecasting
- Natural Language Processing and text analytics
- Integrating AI with Business Intelligence and enterprise analytics platforms

DAY 03 — CONTINUED

PRACTICAL WORKSHOP

Building AI-powered business analytics models for real-world scenarios

DAY 04**Governance, Performance Management, and Responsible AI**

- Data governance and enterprise data quality management
- Cybersecurity, privacy protection, and regulatory compliance
- Ethical AI and responsible analytics practices
- Performance measurement using AI-powered KPIs, executive dashboards, and analytical reporting

PRACTICAL WORKSHOP

Designing governance frameworks and executive performance dashboards

DAY 05**Enterprise Business Analytics Strategy with AI**

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

FINAL WORKSHOP

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



Register or Request More Information

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