



## AI Strategy in Enterprise Systems, Data Governance & Decision-Making

03 - 07 Jan 2027  
Manama (Bahrain)



# AI Strategy in Enterprise Systems, Data Governance & Decision-Making

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## Introduction

Artificial intelligence is reshaping enterprise systems by transforming how organizations manage data, automate processes, and support strategic decisions. This AI Strategy in Enterprise Systems, Data Governance & Decision-Making course provides a structured understanding of how AI integrates into enterprise architectures and governance frameworks. It explores how data becomes a strategic asset when properly governed and analyzed using intelligent systems. Participants will learn how AI enhances decision-making quality across operational and executive levels. The program examines the relationship between AI strategy, data governance, and digital transformation. It equips learners with a theoretical foundation to align AI capabilities with business value creation.

## Targeted Groups

This AI Strategy in Enterprise Systems, Data Governance & Decision-Making training targets professionals seeking knowledge and skills:

- Enterprise IT managers improve digital systems integration.
- Data governance officers ensure compliance and control.
- Business analysts supporting data-driven decisions.
- CIOs and digital transformation leaders.
- AI consultants designing enterprise solutions.
- Risk and compliance professionals in data environments.
- Strategy managers optimizing enterprise performance.
- Technology leaders implementing AI frameworks.

## Course Objectives

Participants will achieve the following objectives by completing the AI Strategy in Enterprise Systems, Data Governance & Decision-Making course:

- Understand AI-driven enterprise architecture design principles.
- Analyze data governance frameworks in modern organizations.
- Apply AI concepts to business decision-making processes.
- Evaluate enterprise data lifecycle and control mechanisms.
- Align AI strategy with organizational objectives effectively.
- Identify risks in AI-enabled enterprise environments.
- Interpret data quality and governance standards.
- Assess digital transformation through AI integration.
- Develop strategic thinking for AI adoption.
- Enhance decision intelligence using structured data systems.

## Targeted Competencies

Participants will gain the following competencies during the AI Strategy in Enterprise Systems, Data Governance & Decision-Making program:

- Strategic AI planning for enterprise environments.
- Data governance structure implementation knowledge.
- Decision-making supported by analytics systems.
- Enterprise architecture evaluation and design thinking.
- AI-driven risk identification and mitigation skills.
- Data quality assessment and validation capability.
- Digital transformation alignment with AI strategy.
- Business intelligence interpretation for leaders.

## Studying Scenarios

In this AI Strategy in Enterprise Systems, Data Governance & Decision-Making training, participants develop skills through the following scenarios:

- AI integration in enterprise resource planning systems.
- Data governance failure analysis in organizations.
- Decision-making improvement using predictive analytics.
- Enterprise data compliance and regulation simulation.
- AI strategy alignment with business transformation goals.

## Course Content

### Unit 1: Foundations of AI Strategy in Enterprises

- Introduction to AI in enterprise ecosystems.
- Evolution of intelligent enterprise systems.
- Core principles of AI strategic planning.
- Role of AI in digital transformation.
- Enterprise AI adoption frameworks overview.
- Business value creation through AI systems.
- AI maturity models in organizations.
- Strategic alignment between IT and business goals.

### Unit 2: Enterprise Systems Architecture and AI Integration

- Enterprise architecture fundamentals for AI systems.
- Integration of AI into legacy systems.
- Cloud-based enterprise AI infrastructures.
- Data flow management across enterprise systems.
- API-driven AI system connectivity models.
- Scalability challenges in AI enterprises.
- Automation of enterprise workflows using AI.
- System interoperability in digital ecosystems.

### Unit 3: Data Governance Frameworks and Policies

- Principles of data governance in organizations.
- Data ownership and stewardship models.
- Regulatory compliance and data protection standards.
- Data lifecycle management processes.
- Master data management strategies.
- Data classification and access control systems.

- Ethical considerations in data governance.
- Risk management in data-driven environments.

## **Unit 4: AI-Driven Decision-Making Systems**

- Decision intelligence in enterprise environments.
- Role of machine learning in decision support.
- Predictive analytics for business forecasting.
- Real-time decision systems using AI.
- Cognitive computing in enterprise decisions.
- Data visualization for executive insights.
- Scenario modeling and decision simulation.
- Improving decision accuracy with AI models.

## **Unit 5: AI Strategy Implementation and Optimization**

- Designing enterprise AI roadmaps effectively.
- Measuring AI strategy performance indicators.
- Change management in AI transformation.
- Governance of the AI lifecycle in enterprises.
- Scaling AI solutions across departments.
- Continuous improvement in AI systems.
- Risk governance in AI deployment.
- Long-term sustainability of AI strategies.

## **Final Insights & Key Takeaways**

AI strategy in enterprise systems depends on strong governance, structured data management, and intelligent decision frameworks. Organizations that align AI with enterprise architecture achieve higher efficiency, accuracy, and competitive advantage.



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