MERCURY

AI Review in Data Systems, Model Evaluation & AI Governance

26 – 30 April 2027
Rome (Italy)



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Introduction

The AI Review in Data Systems, Model Evaluation & AI Governance course provides an understanding of how artificial intelligence systems are assessed, monitored, and governed within modern organizations. As AI adoption continues to expand across industries, organizations require structured approaches to evaluate data quality, model performance, compliance, transparency, and operational reliability. It explores the principles and frameworks for reviewing AI-driven systems throughout their lifecycle, from data acquisition and model development to deployment and ongoing oversight. Participants will examine governance structures that support responsible AI, risk management, accountability, and regulatory alignment. The program addresses practical challenges related to model validation, bias detection, explainability, data governance, and performance monitoring. Participants will possess the theoretical knowledge to evaluate AI systems effectively and support trustworthy, ethical, and high-performing AI initiatives.

Targeted Groups

This AI Review in Data Systems, Model Evaluation & AI Governance training targets professionals seeking knowledge and skills:

- AI governance and compliance professionals.
- Data analysts and data management specialists.
- Machine learning and AI project managers.
- Digital transformation leaders.
- Risk management professionals.
- Information governance specialists.
- Internal auditors and assurance teams.
- Data quality and data governance officers.
- Technology consultants and advisors.
- Business intelligence professionals.
- Innovation and strategy managers.
- Decision-makers responsible for AI initiatives.

Course Objectives

Participants will achieve the following objectives by completing the AI Review in Data Systems, Model Evaluation & AI Governance course:

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- Understand the foundations of AI review and governance frameworks.
- Analyze the role of data systems in AI performance and reliability.
- Examine data quality assessment methods for AI environments.
- Evaluate machine learning models using established performance metrics.
- Interpret model validation and verification approaches.
- Assess AI risks associated with operational deployment.
- Identify sources of bias and fairness concerns in AI systems.
- Understand explainable AI principles and transparency requirements.
- Review AI lifecycle management and monitoring processes.
- Examine governance structures for the responsible implementation of AI.
- Analyze compliance requirements and regulatory expectations.
- Evaluate accountability mechanisms within AI programs.
- Strengthen oversight capabilities for AI-enabled decision-making.
- Support continuous improvement of AI performance and governance practices.

Targeted Competencies

Participants will gain the following competencies during the AI Review in Data Systems, Model Evaluation & AI Governance program:

- AI governance framework evaluation.
- Data quality review and assessment.
- Model performance analysis.
- AI risk identification and mitigation.
- Bias and fairness assessment.
- Explainability and transparency evaluation.
- AI compliance monitoring.
- Data governance oversight.
- AI lifecycle review practices.
- Performance monitoring interpretation.
- Responsible AI implementation analysis.
- Audit and assurance support for AI systems.
- Governance reporting and documentation.
- AI decision-making review capabilities.

Studying Scenarios

In this AI Review in Data Systems, Model Evaluation & AI Governance training, participants develop skills through the following scenarios:

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- Reviewing data quality issues affecting AI model outcomes.
- Evaluating machine learning performance in business operations.
- Assessing bias risks within automated decision systems.
- Analyzing governance controls for enterprise AI initiatives.
- Examining AI compliance and regulatory review processes.
- Investigating model monitoring and performance degradation cases.
- Reviewing AI audit findings and corrective actions.
- Evaluating responsible AI implementation across organizational functions.

Course Content

Unit 1: Foundations of AI Review, Data Systems & Governance

- Introduction to AI review and assurance practices.
- Evolution of AI governance in modern organizations.
- Components of AI-enabled data systems.
- Relationship between data governance and AI governance.
- Principles of responsible and trustworthy AI.
- Roles and responsibilities in AI oversight.
- Governance frameworks supporting AI adoption.

Unit 2: Data Quality Assessment & Data Governance for AI

- Data lifecycle management in AI environments.
- Data collection, integration, and preparation processes.
- Data quality dimensions and evaluation criteria.
- Identifying incomplete, inconsistent, and inaccurate data.
- Data lineage and traceability concepts.
- Master data management considerations for AI.
- Data privacy and protection requirements.
- Governance controls for enterprise data assets.

Unit 3: Model Evaluation, Validation & Performance Review

- Fundamentals of machine learning model evaluation.
- Key performance indicators for AI models.
- Accuracy, precision, recall, and model reliability concepts.
- Validation and testing methodologies.
- Model drift and performance degradation assessment.
- Benchmarking and comparative model analysis.
- Explainability and interpretability considerations.
- Documentation requirements for model reviews.

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Unit 4: AI Risk Management, Ethics & Compliance

- AI risk management frameworks and methodologies.
- Operational, technical, and strategic AI risks.
- Bias detection and fairness assessment approaches.
- Ethical considerations in automated decision-making.
- Transparency and accountability principles.
- Regulatory expectations and compliance obligations.
- Third-party AI risk assessment practices.
- Governance reporting and stakeholder communication.

Unit 5: AI Governance Implementation, Monitoring & Continuous Improvement

- Designing effective AI governance structures.
- AI oversight committees and governance roles.
- Monitoring AI performance after deployment.
- Incident management and escalation procedures.
- AI audit and assurance activities.
- Key governance metrics and reporting mechanisms.
- Continuous improvement frameworks for AI systems.
- Future trends in AI governance and model oversight.

Final Insights & Key Takeaways

Effective AI systems require rigorous review of data quality, model performance, governance controls, and risk management practices throughout the AI lifecycle. Organizations that establish strong AI governance and evaluation frameworks are better positioned to achieve trustworthy, compliant, transparent, and sustainable AI-driven outcomes.