MERCURY

Trading, Fraud & Reporting for AI for Finance Course

13 - 17 Sep 2026
Sharm El-Sheikh (Egypt)

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Trading, Fraud & Reporting for AI for Finance Course

Ref.: 121621_1040503 **Date:** 13 - 17 Sep 2026 **Location:** Sharm El-Sheikh (Egypt) **Fees:** 5500 **Euro**

Introduction

Artificial intelligence is reshaping modern financial ecosystems by transforming trading, fraud detection, and regulatory reporting processes. This Trading, Fraud & Reporting for AI for Finance course provides an understanding of how AI models enhance decision-making in financial markets. Participants will explore intelligent trading systems, predictive fraud analytics, and automated compliance reporting frameworks. The program explains how data-driven intelligence supports accuracy, transparency, and operational efficiency in financial institutions. It emphasizes practical theoretical understanding of algorithmic finance models and risk-based monitoring systems. Learners will gain insight into how AI integrates with financial workflows to improve performance, security, and the reliability of reporting.

Targeted Groups

This Trading, Fraud & Reporting for AI for Finance training targets professionals seeking knowledge and skills:

- Financial analysts working with AI trading systems.
- Risk officers handling fraud detection processes.
- Compliance professionals managing regulatory reporting automation.
- Banking professionals involved in digital transformation.
- Data analysts exploring financial machine learning models.
- Investment managers using algorithmic trading tools.
- Audit professionals reviewing AI-driven financial systems.
- Fintech developers building fraud analytics solutions.
- Corporate finance teams are adopting AI in reporting systems.

Course Objectives

Participants will achieve the following objectives by completing the Trading, Fraud & Reporting for AI for Finance course:

- Understand AI trading systems and algorithmic trading models in financial markets.
- Analyze AI techniques for financial fraud detection used by modern institutions.
- Examine predictive analytics for identifying fraudulent financial transactions.
- Explore AI-driven risk assessment frameworks in banking environments.
- Understand regulatory reporting automation and compliance optimization tools.
- Evaluate machine learning models for financial forecasting and trading signals.
- Apply theoretical frameworks for AI in financial decision-making systems.
- Interpret data-driven insights for improving investment performance and governance structures.

Targeted Competencies

Participants will gain the following competencies during the Trading, Fraud & Reporting for AI for

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Finance program:

- Ability to interpret AI trading system outputs and market signals effectively.
- Skill in identifying financial fraud patterns using AI-based analytics tools.
- Competence in evaluating compliance reporting automation frameworks.
- Understand machine learning applications in financial risk monitoring.
- Ability to assess algorithmic trading strategies for decision optimization.
- Knowledge of data modeling for fraud prevention systems.
- Capability to analyze financial datasets for predictive insights.
- Proficiency in understanding AI governance in financial operations.

Studying Scenarios

In this Trading, Fraud & Reporting for AI for Finance training, participants develop skills through the following scenarios:

- AI-based evaluation of trading strategies under volatile market conditions.
- Fraud detection modeling for suspicious banking transactions.
- Automated compliance reporting in regulatory financial environments.
- Machine learning risk analysis for investment portfolios.
- Algorithmic trading simulation using predictive financial datasets.

Course Content

Unit 1: Foundations of AI in Financial Systems

- Introduction to AI in financial ecosystems and digital transformation.
- Overview of AI trading systems and algorithmic trading principles.
- Understanding financial data structures and market behavior modeling.
- Role of machine learning in financial decision automation.
- Key concepts in AI-driven financial intelligence systems.
- Overview of AI in financial reporting and governance systems.
- Introduction to predictive analytics in finance operations.

Unit 2: AI Trading Systems and Algorithmic Finance

- Fundamentals of algorithmic trading strategies and execution models.
- AI trading systems for real-time financial decision support.
- Predictive modeling for market trend forecasting and signals.
- Machine learning integration in automated trading platforms.
- Risk-adjusted trading models and portfolio optimization techniques.
- High-frequency trading concepts and AI acceleration models.
- Evaluation of trading performance using AI-based analytics.

Unit 3: Financial Fraud Detection and AI Analytics

- Introduction to AI methodologies for financial fraud detection.
- Pattern recognition techniques in fraudulent transaction analysis.
- Machine learning models for anomaly detection in banking systems.
- Behavioral analytics for fraud prevention and monitoring.
- Real-time fraud detection systems using AI algorithms.
- Risk scoring models for suspicious financial activities.

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- Fraud analytics in finance for institutional security enhancement.

Unit 4: AI in Regulatory Reporting and Compliance

- AI-driven regulatory reporting automation frameworks.
- Digital compliance systems in financial institutions.
- Data governance and integrity in AI financial reporting systems.
- Automated audit trails and reporting accuracy validation models.
- Compliance monitoring using predictive AI analytics.
- Risk reporting systems for regulatory financial requirements.
- Integration of AI in financial transparency and disclosure systems.

Unit 5: Advanced AI Applications in Financial Decision Systems

- AI-based financial forecasting and investment intelligence models.
- Integration of AI in enterprise financial risk management systems.
- Decision-support systems using advanced machine learning techniques.
- Ethical considerations in AI-driven financial operations.
- Advanced analytics for capital allocation and asset management.
- AI governance frameworks for financial institutions and fintech.
- Future trends in AI financial transformation and digital trading ecosystems.

Final Insights & Key Takeaways

AI is redefining financial trading, fraud detection, and reporting through intelligent automation and predictive analytics. Mastery of these systems enables stronger governance, improved accuracy, and more resilient financial decision-making frameworks.

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Registration form on the :
Trading, Fraud & Reporting for AI for Finance Course

code: 121621 **From:** 13 - 17 Sep 2026 **Venue:** Sharm El-Sheikh (Egypt) **Fees:** 5500 **Euro**

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