BLACKBIRD FOR TRAINING

Artificial Intelligence and Automation in Payment Systems Supervision

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Barcelona (Spain)

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PARTNER

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Introduction

The growing adoption of artificial intelligence, machine learning, and automation technologies is reshaping payment systems and supervisory practices worldwide. Regulators are no longer responsible only for overseeing AI-enabled payment platforms and fintech solutions, but are also expected to leverage advanced technologies to enhance supervisory effectiveness, efficiency, and early risk detection.

The Artificial Intelligence and Automation in Payment Systems Supervision course is designed to equip regulators and supervisors with the knowledge, frameworks, and practical tools needed to understand, assess, and supervise AI-enabled payment systems. This intensive one-week program focuses on AI governance, the supervisory use of regulatory and supervisory technologies, fraud detection, operational resilience, and ethical considerations in automated decision-making.

The course combines regulatory frameworks, technical insights, and real-world case studies, enabling participants to supervise innovation while safeguarding financial stability, consumer protection, and system integrity.

Course Objectives

By the end of this course, participants will be able to:

- Understand how artificial intelligence and automation are applied within payment systems and digital financial infrastructures.
- Assess risks associated with AI-driven payment platforms, including model risk and algorithmic bias.
- Apply supervisory frameworks for AI governance and automated systems.
- Utilize supervisory and regulatory technology tools to enhance payment system oversight.
- Strengthen supervision of fraud detection, anti-money laundering, and transaction monitoring systems.
- Address ethical, transparency, and accountability challenges in AI-enabled supervision.
- Develop supervisory responses to emerging risks arising from automation and advanced analytics.

Course Outlines

The course is delivered over five structured training days, with each day focusing on a key supervisory dimension of AI-enabled payment systems.

Day 1: AI and Automation in Modern Payment Systems

- Overview of AI applications in payments and financial technology.
- Machine learning, big data, and automation concepts from a supervisory perspective.
- AI-driven transaction processing and risk assessment.
- Regulatory perspectives on AI adoption in payment systems.
- Supervisory challenges and opportunities created by automation.

Day 2: Supervisory Use of Regulatory and Supervisory Technologies

- Introduction to supervisory and regulatory technology tools.
- Automated data collection, regulatory reporting, and advanced analytics.
- Early warning systems and real-time supervisory monitoring.
- Enhancing supervisory efficiency through automation.
- Data governance and quality management for supervisory purposes.

Day 3: Fraud Detection, Financial Crime, and Transaction Monitoring

- AI-based fraud detection and anomaly identification techniques.
- Supervision of automated anti-money laundering and transaction monitoring systems.
- Managing false positives and assessing model effectiveness.
- Cross-border payment risks and financial crime exposure.
- Regulatory expectations for transparency and explainability of automated decisions.

Day 4: AI Governance, Risk Management, and Ethics

- Model risk management and validation of AI systems.
- Algorithmic bias, fairness, and accountability considerations.
- Cybersecurity risks in AI-enabled payment systems.
- Supervisory review of AI governance frameworks.
- Ethical and legal considerations in automated decision-making.

Day 5: Operational Resilience, Future Trends, and Case Studies

- Role of AI and automation in strengthening operational resilience.
- Supervisory oversight of third-party technology providers.
- Stress testing AI-enabled payment infrastructures.
- Emerging trends, including real-time payments, digital currencies, and advanced AI applications.
- Case studies and supervisory lessons learned.
- Final review and key success factors for effective supervision.

Why Attend This Course? Wins & Losses!

- Enhance supervisory capabilities through the effective use of AI and automation.
- Gain practical insight into supervising AI-driven payment systems.
- Improve detection of fraud, operational, and systemic risks.
- Align supervisory practices with emerging global standards and regulatory expectations.
- Prepare regulators for future technological disruptions in payment systems.

Conclusion

The Artificial Intelligence and Automation in Payment Systems Supervision course provides regulators and supervisors with a forward-looking framework for overseeing technologically advanced payment ecosystems. By integrating AI concepts, supervisory tools, and regulatory best practices, the program enables participants to balance innovation with safety, transparency, and financial stability.

This course is essential for payment system supervisors, fintech regulators, and financial stability professionals seeking to modernize supervisory approaches in an increasingly automated financial environment.