AI for Risk, Fraud and AML Training

Duration: **1 Day**

BILGINC
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Artificial Intelligence and Machine Learning can significantly enhance **risk management, fraud detection and Anti-Money Laundering (AML)** processes in banking by enabling faster and more data-driven analysis. Transaction behavior analysis, anomaly detection and early identification of risk signals are among the most important applications of these technologies.

The **AI for Risk, Fraud and AML** training program helps participants understand how AI can support financial crime prevention and risk management while also recognizing the model and governance risks associated with AI-driven systems.

Who Should Attend

Risk, Fraud, AML, Compliance, Internal Audit, Internal Control and Operations Teams

What You Will Learn

By the end of the training, participants will be able to:

- Explain key applications of AI in risk management.
- Understand risk scoring, early warning and predictive analytics approaches.
- Recognize the role of transaction behavior and anomaly analysis in fraud detection.
- Evaluate potential applications of AI in AML processes.
- Understand the operational impact of false positives.
- Assess critical AI risks including model risk, bias, explainability and data quality.

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Training Outline

Module 1 — AI in Risk Management

- AI-assisted risk scoring
- Early Warning Systems and early risk signals
- Predictive analytics for forward-looking risk assessment
- Anomaly detection and identification of unusual behavior
- AI-assisted risk monitoring and decision support

Module 2 — AI for Fraud Detection

- Transaction and customer behavior analysis
- Detecting unusual transactions and behaviors
- Identifying fraud patterns
- Recognizing new and evolving fraud patterns
- Real-time fraud detection
- Prioritizing AI-generated alerts

Module 3 — AI for AML

- Detecting suspicious transactions and behaviors
- Network analysis for identifying relationships
- Customer risk scoring
- Extracting risk signals from customer and transaction data
- Managing false positives and operational workload
- The potential of AI to support AML investigation processes

Module 4 — AI and Model Risks

- Key components of model risk
- Bias and inaccurate risk assessments
- Explainability of AI-driven decisions
- Impact of data quality on model outputs
- Human oversight and validation of AI results

Case Study — “Design an AI-Powered Fraud Detection System”

Participants design an **AI-powered fraud detection solution** based on a sample banking fraud scenario.

They define the relevant data and signals, anomalies to be detected, risk-scoring approach, alert mechanisms, false-positive management and required human control points.

By the end of the case study, participants will be able to evaluate AI-based fraud detection systems not only from a technology perspective but also in terms of **risk, operations and control mechanisms**.