KOENIG SOLUTIONS · COURSE OUTLINE

AI in Finance: Fraud Detection & Robo-Advisors

Learn to apply AI for fraud detection, risk management, robo-advisors and IT operations across financial institutions.

5 Days	33	1
40 HOURS	TOPICS	HANDS-ON ACTIVITIES

COURSE OVERVIEW

This course covers AI fundamentals and their applications in finance, including process automation, risk management, fraud detection, and customer experience through robo-advisors and chatbots. It then addresses AI strategy and leadership, covering investment analytics, vendor evaluation, project roadmaps, and team building, before examining regulatory compliance, governance frameworks, and the risks of bias and explainability. Attention turns to AI in IT management for financial institutions, spanning AIOps, IT service management, cybersecurity, cloud infrastructure, and compliance monitoring. The course closes with AI-driven financial decision-making, covering forecasting, wealth management, corporate finance applications, scenario simulation, and emerging trends such as generative and agentic AI.

WHO THIS COURSE IS FOR

Finance Professionals | **IT Managers** | **Business Leaders in Financial Services**

LEARNING OBJECTIVES

- Introduce AI fundamentals and its applications in the financial sector
- Demonstrate how AI enhances efficiency, customer experience, and risk management
- Equip IT managers and finance professionals to strategically adopt and implement AI
- Explore AI-driven automation, predictive analytics, compliance, and governance
- Provide real-world case studies and hands-on scenarios for financial institutions

COURSE SYLLABUS

33 Topics

DAY 1 AI for Business Leaders — 8 hours

Introduction to AI in Finance

TOPICS

- Key AI technologies (ML, NLP, RPA) and applications

AI-Driven Process Automation

TOPICS

RPA in reconciliation, invoicing, payroll

AI and Risk Management

TOPICS

- Predicting and mitigating risks; fraud detection, compliance

AI in Customer Experience

TOPICS

Personalization, chatbots, robo-advisors

Implementation Strategies

TOPICS

- Identifying AI opportunities, integrating AI with legacy systems

Ethical Considerations & Governance

TOPICS

Bias, fairness, responsible AI use

DAY 2 AI Strategy and Leadership — 8 hours

Strategic Overview

TOPICS

How AI reshapes financial services

AI Investment Strategies

TOPICS

- Predictive analytics for portfolio management & trading

Evaluating Tools & Platforms

TOPICS

Choosing AI vendors & platforms

AI Project Leadership

TOPICS

Roadmaps, collaboration, ROI measurement

Leadership in AI Finance

TOPICS

- Building AI-capable teams, fostering innovation culture

DAY 3 AI Opportunities and Risks — 8 hours

AI Technologies in Financial Services

TOPICS

ML, DL, NLP, GenAI use cases

Risk Management

TOPICS

- AI in fraud detection, anti-money laundering, cybersecurity

Regulatory Compliance

TOPICS

KYC, GDPR, RBI/SEC guidelines, AML

Financial Analytics & Forecasting

TOPICS

- Predictive analytics, budgeting, market trends

Risks of AI

TOPICS

Bias, explainability, operational risks

AI Governance Frameworks

TOPICS

- Monitoring, validation, risk mitigation strategies

DAY 4 AI in IT Management for Financial Institutions — 8 hours

01

AI in IT Operations (AIOps)

TOPICS

Predictive monitoring & incident management · Automated root cause analysis

02

AI for IT Service Management (ITSM)

TOPICS

AI-driven ticket routing · Chatbots/LLMs for IT helpdesk

03

AI in Cybersecurity for Financial IT

TOPICS

- Threat detection (phishing, insider threats)
- User behavior analytics, secure access controls

04

AI in Infrastructure & Cloud Management

TOPICS

Predictive scaling, resource optimization · AI in multi-cloud/hybrid environments

05

Governance & Compliance for IT Managers

TOPICS

PCI-DSS, GDPR, RBI/SEC IT compliance · AI-based compliance monitoring & reporting

DAY 5 AI in Financial Decision-Making & Future Trends — 8 hours

AI-Driven Analytics

TOPICS

- Turning data into actionable financial insights

Forecasting & Predictive Analytics

TOPICS

Revenue, risk, budgeting

Wealth Management & Portfolio Optimization

TOPICS

Robo-advisors, investment automation

Corporate Finance Applications

TOPICS

Cost optimization, pricing strategies

Scenario Analysis & Simulation

TOPICS

AI-powered stress testing & what-if scenarios

Future of AI in Finance

TOPICS

GenAI, Agentic AI, and emerging innovations

CAPSTONE CASE STUDY

- Designing an AI adoption roadmap for a financial institution

NOTES

- Expected Outcomes: At the end of this training, participants will be able to: Identify and evaluate AI opportunities in financial organizations; Apply AI for automation, risk management, and customer engagement; Understand regulatory, compliance, and ethical frameworks in finance AI; Drive AI adoption strategies at leadership and IT management levels; Optimize IT operations and infrastructure using AI solutions.

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

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Talk to a learning advisor about schedules, group training and customised delivery.

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