KOENIG SOLUTIONS · COURSE OUTLINE

AI in Finance: Fraud Detection & Predictive Analytics

Learn to apply AI for fraud detection, risk management and predictive analytics to guide financial decision-making and strategy.

3 Days	4	47
DURATION	MODULES	TOPICS

COURSE OVERVIEW

This course examines how artificial intelligence, machine learning, natural language processing and robotic process automation apply to financial functions such as fraud detection, auditing, forecasting and customer personalisation. It covers building AI strategies, evaluating AI tools and vendors, leading AI projects, and assessing return on AI investment within financial organisations. It addresses AI-driven risk management, regulatory compliance such as KYC, AML and GDPR, and governance frameworks for ethical and responsible AI use. It also looks at applying AI to financial decision-making, including forecasting, wealth management, portfolio optimisation, corporate financial planning and scenario-based risk simulation.

WHO THIS COURSE IS FOR

Finance Executives | **Finance Leaders** | **Risk Managers** | **AI Project Leaders** | **Wealth Managers** | **Compliance Officers**

LEARNING OBJECTIVES

- Identify areas within their organization where AI can drive value, plan AI strategies, and lead AI projects in financial contexts
- Equip finance leaders with the knowledge to drive AI initiatives strategically, aligning them with business goals
- Lead and manage AI implementations within financial services, focusing on business impact
- Harness AI opportunities in finance while effectively managing and mitigating risks, both operational and ethical
- Enhance and optimize financial decision-making, from corporate finance to personal wealth management, while understanding the technology's limitations

COURSE SYLLABUS

4 Modules, 47 Topics

01

AI for Business Leaders and Finance Executives

INTRODUCTION TO AI IN FINANCE

- Overview of AI technologies (machine learning, NLP, RPA) with practical applications in finance
- How AI is transforming key financial functions like fraud detection, auditing, and forecasting

AI-DRIVEN PROCESS AUTOMATION

- Automating repetitive financial processes such as accounts reconciliation, invoicing, and payroll management using AI
- **Case studies:** Robotic Process Automation (RPA) in financial operations

AI AND RISK MANAGEMENT

- Using AI models to predict and mitigate financial risks (market risk, credit risk, operational risk)
- How AI enhances fraud detection and compliance management

AI IN CUSTOMER EXPERIENCE & PERSONALIZATION

- Leveraging AI to offer personalized banking, investment advice, and customer service in financial services

IMPLEMENTATION STRATEGIES

- Evaluating AI opportunities within your organization
- Steps to implement AI systems effectively without disrupting existing operations

ETHICAL CONSIDERATIONS AND AI GOVERNANCE

- Regulatory and ethical aspects of AI adoption in finance
- Navigating the ethical implications of using AI in financial decision-making and ensuring compliance

02

AI Strategy and Leadership for Finance Professionals

STRATEGIC OVERVIEW OF AI

- High-level understanding of AI technologies and their applications in the finance sector
- How AI is reshaping the competitive landscape in financial services

AI INVESTMENT STRATEGIES

- Understanding how AI can enhance investment decision-making through predictive analytics
- **Case study:** AI-driven portfolio management and trading algorithms

EVALUATING AI TOOLS AND PLATFORMS

- How to assess AI vendors, tools, and platforms that cater to financial services
- Choosing the right AI solutions for your organization

AI PROJECT LEADERSHIP

- **Key considerations when leading AI projects:** cross-functional collaboration, data-driven decision-making, managing AI implementation
- Creating AI roadmaps for organizational transformation

ROI FROM AI IN FINANCE

- How to evaluate the financial return on AI investments
- Assessing cost savings, process efficiency, and revenue growth through AI projects

LEADERSHIP IN AN AI-DRIVEN FINANCE WORLD

- Developing AI leadership skills to foster innovation and guide your organization through digital transformation
- Building and managing AI teams

03

AI in Finance: Opportunities and Risks

AI TECHNOLOGIES AND FINANCIAL SERVICES

- Overview of key AI technologies—machine learning, deep learning, natural language processing, etc.—and their specific use cases in finance
- AI in areas such as wealth management, risk assessment, underwriting, and insurance

AI FOR RISK MANAGEMENT

- Advanced AI applications in detecting financial fraud and mitigating credit, market, and operational risks
- **Case studies:** AI in fraud detection and cybersecurity

AI-DRIVEN REGULATORY COMPLIANCE

- Leveraging AI to comply with evolving financial regulations (KYC, AML, GDPR, etc.)
- How AI helps streamline regulatory reporting and compliance management

AI IN FINANCIAL ANALYTICS AND FORECASTING

- Enhancing predictive analytics for financial forecasting, budgeting, and scenario analysis
- Using AI to identify market trends and improve financial decision-making

RISKS OF AI IN FINANCE

- Identifying and mitigating potential risks associated with AI, including model biases, data privacy concerns, and ethical implications
- How to ensure responsible AI deployment in finance

AI GOVERNANCE AND ETHICAL FRAMEWORKS

- Creating governance frameworks for safe AI adoption
- Setting up processes for ongoing monitoring, evaluation, and validation of AI models

04

AI in Financial Decision-Making

AI-DRIVEN ANALYTICS IN FINANCIAL DECISION-MAKING

- How AI can enhance financial decision-making through analytics
- Using AI to perform in-depth data analysis and generate actionable insights

AI FOR FORECASTING AND PREDICTIVE ANALYTICS

- Leveraging machine learning models to forecast revenue, predict financial risks, and optimize budgeting
- **Case studies:** AI for market trend analysis and forecasting future financial performance

AI IN WEALTH MANAGEMENT AND PORTFOLIO OPTIMIZATION

- Using AI for optimizing investment strategies and portfolio management
- How AI-driven advisory platforms (robo-advisors) are changing wealth management

AI-ENHANCED FINANCIAL PLANNING

- How AI tools can improve financial planning and advisory functions
- **Case study:** AI in personal finance management and its impact on client advisory

AI FOR CORPORATE FINANCIAL DECISION-MAKING

- How corporations are using AI for strategic financial planning and capital allocation
- AI-driven cost optimization and pricing strategies in corporate finance

AI-BASED SCENARIO ANALYSIS AND RISK SIMULATION

- Simulating financial risks and outcomes using AI models
- Scenario analysis for better risk-adjusted decision-making

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

Ready to Get Started?

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

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