AI+ Finance Agent

Category: AI, Data & Analytics | **Vendor:** AI Certs

Duration: 1.00 hours (1 days) **0.8 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	vILT
Certification:	AI+ Finance Agent
Related Exam:	AI-FIN

Course Overview

AI+ Finance Agent™ equips professionals with the ability to turn complex financial workflows into automated, intelligent systems. The course highlights how AI agents perform forecasting, analyze market movements, detect risks, and streamline compliance tasks with speed and precision. Participants see how agentic automation reshapes decision cycles and reduces operational burden across finance functions.

About This Course

AI+ Finance Agent™ equips professionals with the ability to turn complex financial workflows into automated, intelligent systems. The course highlights how AI agents perform forecasting, analyze market movements, detect risks, and streamline compliance tasks with speed and precision. Participants see how agentic automation reshapes decision cycles and reduces operational burden across finance functions.

Prerequisites & Entry Requirements

General Prerequisites:

Basic Knowledge of Financial Markets – Understanding of stock markets, trading, and financial instruments.

Familiarity with Machine Learning – Basic concepts and algorithms of machine learning.

Programming Skills – Proficiency in Python or similar languages for coding.

Statistical Analysis Understanding – Knowledge of data analysis and statistical methods.

Interest in Financial Technology – Enthusiasm for applying AI to solve financial challenges.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Understand how AI agents support financial analysis, forecasting, research, and automation

Build task-driven agents using LLM reasoning, tool integration, and prompt pipelines

Apply AI to portfolio evaluation, risk scoring, anomaly detection, and financial data processing

Implement RAG (Retrieval-Augmented Generation) for context-rich market research and reporting

Explore compliance, audit-readiness, and guardrails necessary for safe AI adoption in finance

Design, test, and deploy autonomous finance agents to streamline workflows and enhance decision-making

Detailed Course Outline

Introduction to AI Agents in Finance

Understanding AI Agents in Finance vs Traditional Financial Automation

The Evolution of AI Agents in Financial Services

Overview of Different Types of AI Agents in Finance

Importance of Agent Autonomy and Task Delegation in Financial Settings

Key Differences Between AI Agents in Finance and Traditional Automation

Hands-On Activity: Exploring AI Agents in Finance

Building and Understanding AI Agents in Finance

Architecture of AI Agents in Finance

Tools and Libraries for Agent Development

AI Agents vs. Static Models

Overview of Agent Lifecycle

Use Case: Customer Support Agents in Banks for Handling KYC, FAQs, and Transaction Disputes

Case Study: Bank of America’s Erica: A Virtual Financial Assistant that Handles 1+ Billion Interactions Using Predictive AI

Hands-On Activity: Building and Understanding AI Agents in Finance

Intelligent Agents for Fraud Detection and Anomaly Monitoring

Supervised/Unsupervised ML for Fraud Detection

Pattern Analysis & Behavioural Profiling

Real-time Monitoring Agents

Real-World Use Case: AI Agents Monitoring Transaction Behaviour and Flagging Anomalies for Real-Time Fraud Detection in Digital Wallets

Case Study: PayPal’s AI System Uses Graph-Based Anomaly Detection Agents to Flag 0.32% of All Transactions for Fraud with 99.9% Accuracy

Hands-On Activity: Intelligent Agents for Fraud Detection and Anomaly Monitoring

AI Agents for Credit Scoring and Lending Automation

Feature Generation from Non-Traditional Credit Data

Explainability (XAI) in Credit Decisions

Bias Mitigation in Lending Agents

Real-World Use Case: Agents Assessing New-to-Credit Individuals Using Transaction and Mobile Data

Case Study: Upstart’s AI-Based Lending Platform Approved by CFPB Showed 27% Increase in Approval Rate and 16% Lower APRs for Borrowers

Hands-On Activity: AI Agents for Credit Scoring and Lending Automation

AI Agents for Wealth Management and Robo-Advisory

Personalization Using Profiling Agents

Portfolio Rebalancing Algorithms

Sentiment-Aware Investing

Real-World Use Case: AI Agent Adjusting Portfolio Weekly Based on Financial Goals and Market Trends

Case Study: Wealthfront’s Path Agent Uses Financial Behavior Modeling to Recommend Personalized Savings Goals and Investment Paths

Hands-On Activity: AI Agents for Wealth Management and Robo-Advisory

Trading Bots and Market-Monitoring Agents

Reinforcement Learning in Trading Agents

Predictive Modelling Using Historical Data

Risk-Reward Threshold Management

Real-World Use Case: AI Trading Agents Performing Arbitrage Between Crypto Exchanges

Case Study: Renaissance Technologies Utilizes AI to Automate Short-Hold Trades, Generating Consistent Alpha via Adaptive Trading Bots

Hands-On Activity: Trading Bots and Market-Monitoring Agents

NLP Agents for Financial Document Intelligence

LLMs in Earnings Call and Filings Analysis

AI Summarization and Event Detection

Voice-to-Text and Key-Point Extraction

Real-World Use Case

Case Study: BloombergGPT — A Financial-Grade Large Language Model

Hands-On Activity: NLP Agents for Financial Document Intelligence

Compliance and Risk Surveillance Agents

AI for Anti-Money Laundering (AML) and Know Your Business (KYB)

Regulation-aware Rule Modelling

Transaction Graph Analysis

Real-World Use Case: Agent tracking suspicious cross-border money transfers in real-time across

multiple accounts.

Case Study: HSBC uses Quantexa’s AI agents to trace AML networks, increasing suspicious activity detection by 30%.

Hands-On Activity: Compliance and Risk Surveillance Agents in Financial Systems

Responsible, Fair & Auditable AI Agents

Governance Frameworks for AI in Finance (RBI, EU AI Act)

Transparency and Auditability in Decision Logic

Fairness and Explainability

Real-World Use Case: Auditable AI Agent Logs Used During Internal Policy Audits to Ensure Fair Lending practices.

Case Study: Wells Fargo implemented internal AI fairness reviews for lending bots post regulatory scrutiny.

Hands-On Activity: Responsible, Fair & Auditable AI Agents in Finance

World Famous Case Studies

Case Study 1: JPMorgan’s COiN Platform

Case Study 2: AI in Fraud Detection – PayPal’s Decision Intelligence

Case Study: AI-Driven Credit Scoring – Upstart’s Lending Platform

Capstone Project

Key Takeaways of the Module

Certification Path

AI+ Finance Agent

Exam: AI-FIN

Frequently Asked Questions

Q: What delivery options are available for AI+ Finance Agent?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The AI+ Finance Agent course helps prepare you for the AI+ Finance Agent certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the AI-FIN official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 1-day AI+ Finance Agent course provides up to 0.8 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the AI+ Finance Agent training?

The training takes place over 1 day(s), with each day lasting approximately 1.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for AI+ Finance Agent?

Yes, we provide corporate training, dedicated training, and closed classes for AI+ Finance Agent. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: AI+ Finance Agent, AI Certs, vILT

Q: Why choose Nexus Human for AI+ Finance Agent?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your AI+ Finance Agent training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

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