



Demystifying Generative AI for Financial Institutions

- 5 Hours
- Lecture and Hands-on Labs

Course Overview

Demystify Generative AI for Financial Services is a 5-hour instructor-led course designed to provide financial professionals with a practical understanding of how Generative AI is transforming the industry. Through a combination of lectures, demonstrations, and hands-on exercises, participants will explore the capabilities of Large Language Models (LLMs), evaluate GenAI platforms, and understand how to securely deploy solutions in regulated environments. This course equips attendees with both technical insights and business context to confidently apply GenAI to real-world financial challenges—from compliance automation and fraud simulation to client interaction and risk summarization.

Review this course online at <https://www.alta3.com/courses/fin-demyst>

Who Should Attend

- Financial Analysts and Risk Managers - leveraging GenAI for data summarization and risk assessment.
- Technology Leaders in Finance - understanding strategic GenAI adoption.
- Compliance and Legal Teams - exploring GenAI for document review and regulatory tasks.
- AI/ML Practitioners and Data Scientists - evaluating GenAI tools for financial enterprise use.

What You'll Learn

- Explore foundational AI concepts and the impact of GenAI on financial compliance and service.
- Learn how to implement Large Language Models for financial document processing and automation.
- Compare GenAI platforms to determine performance, accuracy, and enterprise readiness.
- Examine key architectural patterns for embedding GenAI in regulated financial systems.

Outline

Foundations of AI and Generative Models

1. Understand the evolution of AI and the role of Generative AI in financial services
2. Historical evolution of AI with examples like algorithmic trading and robo-advisors
3. Discriminative vs Generative AI
4. Use cases in finance such as synthetic data generation for model training ##### Large Language Models and Transformer Architectures
5. Explore how LLMs work and their relevance to financial document processing
6. Anatomy of an LLM — training on regulatory filings, earnings calls, and customer chat data
7. Transformer fundamentals and sequence-heavy tasks
8. Demo: Feeding a customer inquiry prompt into a compliance-trained model ##### Tools, Vendors, and Model Evaluation in Finance
9. Learn how to choose the right GenAI platform for finance applications
10. Platforms overview — OpenAI for document summarization, Hugging Face for NLP pipelines
11. Model comparison with focus on enterprise-grade metrics ##### Enterprise AI Architectures & Image Generation

12. Examine how GenAI fits into regulated financial environments
13. Enterprise architecture patterns
14. Introduction to image generation for marketing and dashboards ##### Azure OpenAI in Finance + Guided Lab
15. Deploy GenAI tools securely using Azure's enterprise cloud infrastructure
16. Azure OpenAI setup for highly regulated sectors
17. Demo: Deploying and accessing financial models through Azure

Labs

- Generate a risk summary from client portfolio data
- Auto-respond to a client's investment query based on historical trends

Prerequisites

- Familiarity with network fundamentals and financial systems.
- Basic understanding of AI and machine learning concepts.

Next Courses

Course 1 Course 2