

Finance

TABLE OF CONTENTS

01 **Generative AI for Finance Professionals: Accelerating Financial Operations and Analysis with LLMs**

Accelerating Financial Operations and Analysis with LLMs

Duration: 16 Hrs

Training Description:

This training program is designed for employees in finance-related roles to leverage the power of Generative AI (GenAI) and Large Language Models (LLMs) such as GPT, Claude, Gemini, and other provider-agnostic AI tools. Participants will explore how AI can enhance financial workflows by automating document processing, generating insightful reports, forecasting financial trends, improving fraud detection, and supporting data-driven decision-making. The course provides hands-on demos, real-world examples, and ethical guidance to ensure AI is implemented responsibly. Delivered with flexibility in mind, the program caters to all cloud platforms, including AWS, Azure, and Google Cloud, empowering finance teams to drive efficiency and innovation.

Target Audience:

- Finance teams at all levels, including analysts, accountants, financial controllers, CFAs, and auditors seeking to enhance their daily workflows with GenAI technologies.
- Teams focused on tasks such as financial reporting, fraud analysis, budget forecasting, regulatory compliance, and process automation.
- Organizations aiming to adopt AI-driven tools for improving analytic accuracy, decision-making, and workflow efficiency.

List of Tools, Frameworks, and Technologies Covered:

- **LLM Tools:** APIs provided by GPT, Claude, Gemini, or other widely-used commercial generative AI models.
- **Financial Reporting Tools:** Excel, Power BI, Tableau integrated with generative AI for automated analytics.
- **Process Automation Tools:** Integration platforms like Zapier, UiPath, or robotic process automation (RPA) systems enhanced by AI.
- **Fraud Detection and Risk Modeling:** TensorFlow, Scikit-learn with LLM-enhanced workflows for anomaly detection.
- **Cloud-Friendly Deployments:** AWS SageMaker, Azure AI, or Google Vertex AI for scalable AI-based financial applications.

What Participants Can Expect After Completing This Training:

1. Learn to incorporate Generative AI into financial reporting, forecasting, and analytic workflows for faster and more accurate insights.
2. Automate repetitive financial processes such as invoice handling, budget approval workflows, risk assessments, and transaction categorization using generative AI tools.
3. Detect anomalies and assess financial risks with AI-powered fraud detection workflows.
4. Build tools and workflows for regulatory compliance, ensuring reports and financial processes stay consistent and reliable under audit.
5. Gain real-world experience to implement ethical AI practices tailored to critical financial operations.

Syllabus: Generative AI Training for Finance Professionals

Module 1: Introduction to Generative AI in Finance (2 Hours)

Objective:

Understand the basics of Generative AI and its relevance to finance-related tasks.

Topics Covered:

1. Overview of Generative AI and LLMs (e.g., GPT, Claude, Gemini) and their applicability in finance.
2. AI-driven applications for operational efficiency: automating repetitive tasks, analyzing trends, and reducing manual labor.
3. Integrating Generative AI tools into cloud-based financial platforms (AWS, Azure, GCP).

Demo:

- Use an LLM API to summarize large financial datasets dynamically (e.g., generating a profit and loss summary from raw financial data).

Hands-On Practice:

- Participants craft prompts to create AI-generated summaries of financial data tables (e.g., revenue breakdowns by department).

Module 2: AI-Powered Financial Reporting and Automation (4 Hours)

Objective:

Streamline and automate financial reporting workflows with AI-generated insights and document processing.

Topics Covered:

1. Creating automated financial reports and generating narratives for data trends using AI.
2. Automating reconciliation workflows, invoice processing, and expense categorization with AI tools.
3. Enhancing financial modeling tasks by generating custom Excel formulas or macros via AI tools.

Demo:

- Automate the creation of an executive financial report summarizing quarterly performance data, including visualizations and insights.

Hands-On Practice:

- Participants upload a mock dataset of balance sheets, generate a financial summary with an AI tool, and enhance the output for decision support.
-

Module 3: Forecasting Financial Trends and Budget Planning Using LLMs (3 Hours)

Objective:

Learn how to use AI for forecasting, budgeting, and predictive financial analysis.

Topics Covered:

1. Leveraging LLMs for forecasting future revenue and expenses based on historical financial data.
2. Using AI to simulate scenarios for budget planning (best-case, worst-case, and likely outcomes).
3. Integrating AI-generated forecasts into visualization tools such as Power BI and Tableau for easy reporting.

Demo:

- Use an LLM API to process historical sales data and provide dynamic revenue forecasts for the next fiscal quarter.

Hands-On Practice:

- Participants upload budget data, query an AI tool for forecast scenarios, and visualize the results in a reporting dashboard.

Module 4: Fraud Detection and Risk Assessment with Generative AI (4 Hours)

Objective:

Use Generative AI to enhance workflows for identifying anomalies, detecting fraud, and managing financial risks.

Topics Covered:

1. Using AI tools for fraud detection by identifying unusual trends or suspicious behaviors in financial transactions.
2. Predictive modeling for risk analysis and scenario planning, including stress tests.
3. Automated compliance checks for detecting regulatory concerns in documentation and workflows.

Demo:

- Build a fraud detection pipeline that uses AI to scan transaction logs and flag unusual patterns for further review.

Hands-On Practice:

- Analyze a mock financial transaction dataset and use AI-generated insights to identify anomalies and classify risks.
-

Module 5: Compliance and Audit Support with Generative AI (3 Hours)

Objective:

Use Generative AI to ensure regulatory compliance, produce high-quality audit-ready reports, and streamline document analysis.

Topics Covered:

1. Automating compliance workflows: validating financial documents and generating audit summaries.
2. Identifying key regulatory trends and exceptions using AI-assisted tools.
3. Using LLMs for dynamic checklist generation to ensure adherence to compliance standards.

Demo:

- Use an LLM API to generate an audit checklist for a set of provided financial documents based on compliance rules and regulations.

Hands-On Practice:

- Participants review and validate a mock compliance report generated by an LLM and refine prompts to eliminate errors.
-

Module 6: Best Practices and Ethical AI Implementation in Finance (2 Hours)

Objective:

Develop ethical practices to integrate AI in financial workflows responsibly and effectively.

Topics Covered:

1. Ethical considerations for Generative AI in finance: privacy, bias prevention, and ensuring accuracy in compliance reporting.
2. Best practices for validating LLM-generated financial outputs to meet organizational standards.
3. Customizing prompts to eliminate biased or hallucinatory AI responses in sensitive financial tasks.

Demo:

- Examine AI-generated financial analyses for biases or inaccurate assumptions, and adjust workflows to ensure alignment with ethical standards.

Hands-On Practice:

- Participants evaluate and iterate on AI-generated financial recommendations to ensure neutrality, accuracy, and privacy compliance.