Audit, Risk and Governance

AI-Driven Auditing: Mastering Automation and Analytics for the Future of Internal Audits

Course Introduction

AI-Driven Auditing:

This training program will immerse participants in the world of AI-powered audit analytics and automation, equipping them with the tools, techniques, and ethical frameworks necessary to integrate AI into their internal auditing functions.

The training program will cover the core principles of AI and its applications in auditing, from enhancing traditional audit processes to automating key tasks such as data analysis, fraud detection, and compliance monitoring.

Participants will also explore ethical considerations surrounding AI in auditing, including addressing biases and ensuring data privacy, while learning how to leverage AI tools and platforms effectively.

By the end of this training, participants will have a solid understanding of how AI can transform internal audit operations and will be equipped to apply AI solutions to improve audit quality, productivity, and decision-making.

Target Audience

- **Internal Auditors**
- **Audit Managers**
- **Compliance Officers**
- **Risk Management Professionals**
- **Data Analysts**
- **IT Auditors**
- **CFOs and Finance Executives**
- **Consultants and Advisors**
- **Technology Leaders**
- **Training Managers**

Learning Objectives

- Learn key concepts of AI, including machine learning and natural language processing, and how they are reshaping the audit landscape.
- Understand how AI can automate and enhance specific audit tasks such as data analysis, fraud detection, risk assessment, and compliance monitoring.
- Dive deeper into AI's capabilities beyond traditional analytics, including predictive analytics, anomaly detection, and scenario analysis.
- Gain hands-on experience with AI-powered tools and platforms relevant to internal audits, such as ACL Analytics, MindBridge Ai Auditor, CaseWare IDEA, and others.
- Explore ethical concerns such as AI bias, transparency, data privacy, and the regulatory frameworks that govern their use in auditing (GDPR, CCPA).
- Understand audit automation tools and techniques, including platforms such as UiPath and Automation Anywhere, and how to integrate automation into audit processes.
- Learn how AI-powered tools can assist in recovering missing or corrupted data and discovering external data sources relevant to audit objectives.
- Discover how AI tools can automate the process of aligning and standardizing audit data from various sources, formats, and naming conventions.
- Learn how to strategically plan for the adoption of AI and automation within the internal audit function, and how to make data-driven decisions with AI-enhanced insights.

Course Outline

- **Day 01**

  Introduction to AI and the Role of AI in Internal Auditing

    - Introduction to Artificial Intelligence: Key concepts and technologies.
    - Machine Learning, Natural Language Processing, and their role in AI.
    - How AI is transforming data analysis and audit processes?
    - Use of AI in risk management, fraud detection, and compliance monitoring.

- How AI enhances audit data interpretation and analysis.
- Using AI to improve accuracy and efficiency in audit analytics.
- Case Studies.

How AI Can Automate or Improve Specific Audit Tasks

- Automating data analysis, testing, and evidence gathering using AI.
- Automating fraud detection and risk assessment tasks.
- AI's role in real-time audit monitoring and reporting.
- Automating compliance checks and regulatory reporting.
- Case Studies.

- **Day 02**

AI Beyond Traditional Analytics

- What Traditional Analytics Misses?
- Limitations of traditional audit analytics methods.
- How AI enhances traditional analytics?
- Predictive analytics, anomaly detection, and forecasting.
- Natural Language Processing (NLP) for analyzing unstructured data.
- Going beyond historical data to predict and mitigate future risks.
- AI in scenario analysis and stress testing.
- Practical Analysis.

Emerging AI Tools and Platforms for Internal Audit

- Introduction to AI platforms specifically designed for internal auditing.
- ACL Analytics – Automating data analysis and audit sampling.
- MindBridge Ai Auditor – AI-powered anomaly detection in financial transactions.
- CaseWare IDEA – Data analysis and audit automation tools.

- ◦ TruQua Solutions – AI and machine learning for risk and compliance.
- ◦ How to choose the right tool based on audit objectives?
- ◦ Integration with existing systems (ERP, financial software).
- ◦ Practical application.

- **Day 03**

Ethical Considerations When Using AI for Audit Analytics

- ◦ AI biases, transparency issues, and data privacy concerns.
- ◦ The impact of biased training data on audit outcomes.
- ◦ Techniques to minimize bias in AI models.
- ◦ Ensuring data privacy when using AI for auditing.
- ◦ Regulatory frameworks (GDPR, CCPA) and their implications on AI auditing.
- ◦ How to ensure audit trail transparency when AI tools are used?
- ◦ Ethical considerations in AI decision-making and reporting.
- ◦ Case Studies.

Introduction to Audit Automation

- ◦ What is Audit Automation?
- ◦ Overview of audit automation and its role in streamlining the audit lifecycle.
- ◦ Benefits of Automating Audits
- ◦ Introduction to automation platforms and tools (UiPath, Automation Anywhere).
- ◦ How to Get Started with Audit Automation tools?
- ◦ Steps for adopting automation in your audit department.
- ◦ Practical application.

- **Day 04**

AI-Powered Tools for Intelligent Data Recovery

- ◦ Introduction to intelligent data recovery techniques.
- ◦ How AI Enhances Data Recovery

- ◦　AI for extracting and validating missing or corrupted data from various sources.
- ◦　Overview of AI tools used for recovering data from different systems (Like: DataRobot).
- ◦　Practical application.

AI for Connecting and Discovering External Data Sources

- ◦　The importance of external data for comprehensive audits.
- ◦　How AI Discovers and Connects to External Data?
- ◦　AI algorithms that search and connect to external data sources based on audit objectives.
- ◦　Alteryx – AI-powered tool for data preparation and external data connection.
- ◦　Talend – AI-enhanced data integration and discovery tools.
- ◦　Practical application.

- **Day 05**

Automated Data Harmonization Using AI

- ◦　Understanding Data Harmonization in Auditing
- ◦　Importance of aligning and standardizing data for audits.
- ◦　Tools and techniques that automate the process of aligning data from different formats or naming conventions.
- ◦　AI Tools for Data Harmonization:
- ◦　Informatica – AI-based data integration and harmonization platform.
- ◦　DataRobot – Automating data harmonization with AI.
- ◦　Practical Application.

Practical Workshop.

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 14, 2025	April 18, 2025	5 days	4250.00 $	UAE - Dubai
Aug. 25, 2025	Aug. 29, 2025	5 days	2150.00 $	Virtual - Online
Nov. 17, 2025	Nov. 21, 2025	5 days	4950.00 $	Netherlands - Amsterdam