DIGITAL TRANSFORMATION AND ARTIFICIAL INTELLIGENCE IN FINANCE



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GENTEX Training Center LLC | Orlando - FL, USA
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Introduction

Digital Transformation and Artificial Intelligence in Finance Training Course builds the applied capability that finance leaders, analysts, and technology partners need to modernise financial processes with data and artificial intelligence. Finance functions sit on large, structured data sets and repeatable processes, which makes them strong candidates for automation and machine learning. Weak implementation, however, produces unreliable models, hidden errors, and governance gaps. This course develops the discipline that prevents those outcomes. It covers transformation strategy, data foundations, and automation. Furthermore, it applies AI use cases in forecasting, credit, and fraud detection. In addition, it develops governance, validation, and change management. As a result, participants modernise finance with measurable and controlled results.

Digital Transformation and Artificial Intelligence in Finance Course Objectives

- Explain digital transformation drivers and finance function maturity.
- Map finance processes for automation and AI suitability.
- Apply data quality, governance, and preparation practices.
- Apply robotic process automation to repetitive finance tasks.
- Apply machine learning to forecasting and financial analysis.
- Apply AI models to credit scoring and fraud detection.
- Design AI-assisted reporting and decision support tools.
- Apply model validation, explainability, and bias assessment.
- Apply AI governance, risk, and control frameworks.
- Plan transformation roadmaps, benefits, and change management.

Course Methodology

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- Interactive lectures with real transformation and AI implementation cases.
- Process mapping and automation assessment workshops.
- Data preparation and model building exercises.
- Governance, validation, and change management practice.
- Structured peer review with facilitator feedback on transformation plans.

Who Should Take This Course

- Finance directors and transformation leads.
- Financial planning and analysis professionals.
- Data analysts and business intelligence specialists.
- Risk, internal control, and compliance officers.
- Technology and finance systems professionals.
- Consultants advising on finance transformation.

Digital Transformation and Artificial Intelligence in Finance Course Outlines

Day 1: Digital Transformation Strategy for Finance

- Transformation drivers and finance function maturity models.
- Shared services, centres of excellence, and operating models.
- Process mapping and value stream analysis.
- Automation and AI suitability assessment.
- Business case development and benefits realisation.
- Technology landscape: ERP, EPM, and analytics platforms.
- Case study: assessing finance function maturity and priorities.

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Day 2: Data Foundations and Process Automation

- Data architecture, sources, and integration approaches.
- Data quality assessment and cleansing techniques.
- Master data management and data governance.
- Robotic process automation for reconciliation and reporting.
- Workflow automation and approval routing design.
- Controls for automated processes and exception handling.
- Workshop: mapping a finance process for automation.

Day 3: Applied Machine Learning in Finance

- Machine learning fundamentals for finance professionals.
- Supervised, unsupervised, and reinforcement learning use cases.
- Forecasting revenue, cost, and cash flow with ML models.
- Time series methods and feature engineering basics.
- Model training, testing, and performance evaluation.
- Overfitting, underfitting, and data leakage risks.
- Workshop: building a forecasting model and evaluating its accuracy.

Day 4: AI for Credit, Fraud, and Decision Support

- Credit scoring models and risk segmentation.
- Fraud detection using anomaly detection techniques.
- Natural language processing for document review.
- Generative AI for reporting and analysis drafting.
- AI-assisted dashboards and decision support tools.

- Explainability, bias, and fairness assessment.
- Workshop: designing an AI use case and validating its outputs.

Day 5: Governance, Risk, and Transformation Delivery

- AI governance frameworks and accountability models.
- Model risk management and validation standards.
- Data privacy, security, and regulatory considerations.
- Control design for AI-assisted processes.
- Change management, skills, and capability building.
- Transformation roadmap, KPIs, and benefits tracking.
- Course review, assessment, and action planning.

Conclusion

By successfully completing Digital Transformation and Artificial Intelligence in Finance, participants will gain a thorough understanding of transformation strategy for finance, data foundations and process automation, applied machine learning, AI for credit, fraud and decision support, and governance, risk and transformation delivery. They will also acquire practical skills in finance transformation strategy and process mapping, data governance and process automation, applied machine learning and forecasting, and AI governance, model validation and transformation delivery. In addition, the course prepares them to modernise finance with controlled, measurable and well-governed technology. Gentex Training Center delivers this programme with a strong focus on applied implementation and governance-ready delivery.

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FAQs for Digital Transformation and Artificial Intelligence in Finance course

Q1 What is the "Digital Transformation and Artificial Intelligence in Finance" course about?

It is a five-day programme on modernising finance with data and AI. It covers transformation strategy, data foundations and automation, applied machine learning, AI for credit, fraud and decision support, and governance, risk and transformation delivery.

Q2 What are the key benefits of the "Digital Transformation and Artificial Intelligence in Finance" course?

Participants modernise finance with controlled, measurable results. The course improves process mapping and automation selection, sharpens data quality and governance practice, strengthens forecasting and model evaluation, improves credit and fraud model design, and raises AI governance and change management quality.

Q3 What skills will I gain from the "Digital Transformation and Artificial Intelligence in Finance" course?

Participants gain finance transformation strategy and process mapping, data governance and process automation, applied machine learning and forecasting, and AI governance, model validation and transformation delivery. These four skills cover the practical core of this work.

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Q4 What tools, methods, or standards are covered in the "Digital Transformation and Artificial Intelligence in Finance" course?

The course covers finance maturity models, shared services and centre of excellence design, process mapping and value stream analysis, automation suitability assessment, business case and benefits realisation, ERP, EPM and analytics platforms, data architecture and integration, data quality assessment and cleansing, master data management, robotic process automation, workflow automation and approval routing, automated process controls and exception handling, supervised, unsupervised and reinforcement learning, time series forecasting, feature engineering, model training, testing and evaluation, overfitting and data leakage control, credit scoring and risk segmentation, anomaly detection for fraud, natural language processing, generative AI for reporting, explainability and bias assessment, AI governance and accountability models, model risk management and validation standards, data privacy and security requirements, control design for AI-assisted processes, change management and capability building, transformation roadmaps, and KPI and benefits tracking.

Q5 How is the "Digital Transformation and Artificial Intelligence in Finance" course applied in real-world practice?

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Participants apply the methods to real and simulated finance processes. They assess finance function maturity, map processes for automation, evaluate data quality, design RPA and workflow automations, build and test forecasting models, design credit scoring and fraud detection use cases, assess explainability and bias, design governance and model validation routines, plan change management, and build transformation roadmaps with KPIs and benefits tracking. Many leave with a process automation assessment template, a model evaluation checklist, and a transformation roadmap structure ready to use.