



Module synopsis

1. Foundations of AI and Financial Data Literacy

This module introduces the core concepts of AI and machine learning. Students gain practical literacy in financial data structures and sources, providing the foundation needed to apply AI methods in finance contexts.

2. Prompt Engineering and Explainability

Students learn to design, validate, and iteratively tune prompts to elicit reliable outputs from large language models. The module also addresses model explainability techniques, equipping students to interpret and communicate AI-driven decisions to both technical and non-technical stakeholders.

3. AI Prototype Development

This hands-on module guides students through the tools and workflows used to build functional AI prototypes in financial services settings. Students apply industry-relevant methods to construct and evaluate AI agents, culminating in an end-to-end prototype development experience.

4. Financial Services AI Requirements

This module trains students to translate business requirements into AI-based technology solutions suited to financial services contexts. Students also learn to quantify and communicate the business value of AI initiatives, from return on investment analysis to executive-level messaging. The module concludes with an introduction to the regulatory landscape governing AI deployment in financial institutions.

5. AI Ethics and Risk Management

This module examines ethical principles and fairness considerations in AI systems, with particular attention to bias identification and mitigation. Students apply model governance frameworks relevant to regulated financial institutions, grounding abstract ethics concepts in practical compliance contexts.



6. Data Governance for AI

Students explore the techniques financial institutions use to protect sensitive data, including masking, anonymisation, and synthetic data generation. The module situates these methods within the compliance obligations facing firms that train or deploy AI on financial data.

7. AI Security and Auditability

This module covers the security risks and data protection requirements associated with AI systems in financial services. Students conduct structured risk assessments and examine how security controls and audit trails support compliance in regulated environments.

8. AI in Risk Management

Students examine how AI tools are applied across credit, market, and operational risk functions in financial institutions. The module bridges quantitative risk methods with current AI capabilities, drawing on industry practice.

9. AI in Sales, Marketing, Pricing, and Consumer Analytics

This module explores how AI drives personalisation, dynamic pricing, and consumer insight generation across retail and institutional financial services. Students analyse real-world applications where AI improves customer targeting, campaign effectiveness, and revenue optimisation.

10. AI in Technology and Operations

Students examine how AI is reshaping back-office and middle-office functions, from process automation to anomaly detection in transaction monitoring. The module draws on live operational use cases to connect AI capabilities with efficiency and resilience goals in financial institutions.

11. AI to Support Regulatory Compliance

This module covers the application of AI to compliance-intensive workflows such as know-your-customer checks, anti-money laundering monitoring, and regulatory



reporting. Students evaluate how AI tools reduce manual effort and improve accuracy while operating within the constraints imposed by financial regulators.

12. AI in Investment Research

Students explore how AI augments the investment research process, from alternative data ingestion and sentiment analysis to automated report generation. The module assesses both the opportunities and limitations of AI-assisted analysis in context of different asset classes.