



Course 1- Foundations of Artificial Intelligence: Applications and Trends

What is AI? The first chapter of the course defines and describes the impact of Al inside and outside of Finance. Going through examples, analysing the causes, demystifying some concepts and sharing a framework for finance innovation, Dr Ayesha Khanna will give you the big picture of the Al revolution, and what is driving it. Huy Nguyen Trieu will provide an update on the overall trends and growth trajectory of Al.

Module 1 Introduction to Artificial Intelligence

- 1.1 What is Al?
- 1.2 History & Adoption of Al
- 1.3 Talent & Al
- 1.4 Al Initiatives
- 1.5 Summary

Module 2 Use Cases of Al Outside of Finance

- 2.1 The Six Pillars of Al
- 2.2 Automation & Personalisation
- 2.3 Optimising & Detecting Anomalies
- 2.4 Forecasting & Innovating with Al
- 2.5 Our Role in an Al World
- 2.6 Summary

Module 3 Use Cases of Al in Finance

- 3.1 Automation
- 3 2 Personalisation
- 3.3 Optimisation & Anomaly Detection
- 3.4 Forecasting
- 3.5 Innovation
- 3.6 Summary

Module 4 Industry Drivers of Al in Finance

- 4.1 Startups
- 4.2 Investors
- 4.3 Financial Institutions
- 4.4 Technology Companies & Regulators
- 4.5 Summary

Module 5 AI Trends and Future Developments

- 5.1 Al and the Acceleration of Digitalisation
- 5.2 New Technologies and Applications
- 5.3 Al and the Great Reset

5.4 Al's Role in Inclusive, Responsible and Sustainable Finance

- 5.5 Future Challenges and Concerns
- 5.6 Accelerated Transformation Trends

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Learning Outcomes

Understand the main underlying technologies of AI development





Grasp many key applications of AI to create value in financial institutions and the role of people in facilitating AI



Understand how to make strategic and ethical Al integrations in your organisation

Enhance your skillsets in finance and technology with the most up-to-date and insightful industry knowledge on AI





Philip Watson Chief Innovation Officer. Citi Private Bank









Huy Nguyen Trieu Co-founder, CFTE

Avesha Khanna CEO, ADDO.AI





Course 2- Al Technologies: Machine Learning Techniques, **NLP and Recommendation Engines**

This course will give you an overview of Al Technologies. Initially, the taxonomies of Al, machine learning and deep learning will be discussed. We will explore the numerous steps needed to design and build an Al system, including data preparation and the modelling process. Then two key applications will be investigated in detail: Natural Language Processing and **Recommendation Engines.**

Module 1 Al, Machine Learning and Deep Learning

- 1.1 Introduction to Al, Machine Learning and Deep Learning 1.2 Model Training
- 1.3 Examples in Finance

Module 2 Building Al: Data, Models & Training

- 2.1 Building an Al System
- 2.2 Preparing Data
- 2.3 The Modelling Process
- 2.4 Training Algorithms
- 2.5 Tools for Al

Module 3 Natural Language Processing

- 3.1 An Overview of NLP
- 3.2 How NLP Works
- 3.3 Applications of LP in Finance

Module 4 Recommendation Engines

4.1 An Overview of Recommendation Engines 4.2 How Recommendation Engines Work 4.3 Approaches to Recommendation Engines 4.4 Applications of Recommendation Engines in Finance



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Philip Watson Chief Innovation Officer. Citi Private Bank

Jon-Tzeng Ng Chief Strategy & Innovation Officer, Ping An Technology







Winnie Cheng Director AI Lab. PwC

Huy Nguyen Trieu Avesha Khanna Co-founder, CFTE

CEO, ADDO, AI

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Course 3- Implementing Al in an Enterprise: Technology Skillets and Regulation

This course will discuss the implementation of Al in an enterprise. Initially, a strategic framework for Al implementation will be outlined with a particular focus on how technologies can be accessed by financial institutions. Following this, the numerous infrastructure requirements to implement Al will be discussed. A keep dive on two key areas will then be investigated: The role of people in an Al enabled world, and ethical considerations of Al implementation.

Module 1 Integration of Al at a Strategic Level

- 1.1 System vs Competitive Innovation
- 1.2 A Strategic Framework for Al
- 1.3 Accessing Technologies in Enterprise

Module 2 Infrastructure for Al

2.1 Innovation Capabilities22 Data2.3 Technical Infrastructure

Module 3 The Role of People

3.1 Al & The Workforce3.2 Al Skillsets in the Workforce

3.3 Talent Opportunities & Challenges

Module 4 Ethics and Risks

4.1 Model Validation4.2 Cooperation Between Humans and Machines4.3 Risks and Solutions



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Winnie Cheng Director Al Lab, PwC Huy Nguyen Trieu Co-founder, CFTE CEO

Ayesha Khanna CEO, ADDO.AI

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Course 4- Applications of Al in Finance: Use Cases from the Industry

This course will highlight some of the key applications of Al in finance. This course will be longer than the other courses in the specialisation, each of the six modules will focus on a single application area and will provide detailed insight into how each application creates value in financial services as well as highlighting the industry participants who are leading implementation.

Module 1 Wealth and Asset Management

- 1.1 Al in Wealth and Asset Management
- 1.2 The Benefits of Al in Wealth & Asset Management
- 1.3 Market Research & Data Analytics
- 1.4 Investment Strategy & Trading
- 1.5 Robo-advisors

Moodle 2: Insurance

- 2.1 Insurance Fundamentals
- 2.2 The Insurance Value Chain
- 2.3 Product Development & Behavioural Pricing
- 2.4 Customer Experience & Personalisation
- 2.5 Claims Management & Fraud Detection

Module 3: Customer Services

- 3.1 Customer Service Fundamentals
- 3.2 Benefits of Al in Customer Services
- 3.3 Examples of Al in Customer Services

Module 4: Robotic Process Automation

- 4.1 PA Fundamentals
- 4.2 Uses Cases of RPA
- 4.3 PA Evolution & Limitations

Module 5: Credit Scoring

- 5.1 Credit Scoring Fundamentals
- 5.2 Alternative Credit Scoring
- 5.3 Opportunities and Challenges

Module 6: Compliance and Fraud Detection

- 6.1 Compliance Fundamentals
- 6.2 Understanding Compliance
- 6.3 Designing & Implementing Processes
- 6.4 Compliance Reporting



Learning Outcomes

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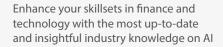




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Co-founder, CFTE





Course 1- The Historical, Economic and Social Importance of Payments

Learn about the payment instruments used by our society over the years and how banks and central banks evolved to what they are today. Discover the trends driving payments today such as financial inclusion, and explore advancements that will shape the future of payments.

Ch 1: A short history of money and payments: from the gift economy to digitial

- Ch 2: Means of payments today: an analysis of the money supply
- Ch 3: Payments and settlements in the modern monetary system
- Ch 4: Payments in modern societies
- Ch 5: The future of money and payments

Course 2- Payment's Industry Fundamentals / The Stack

Gain an insight into the payment infrastructure, including key payment players, payment standards and schemes, and the payment economics of today. The experts share their first-hand learnings in this space, hailing from organisations such as SWIFT, Clearbank, Central Bank of Hungary and many more.

Ch 1: The Payment Business Domains of today

- Ch 2: The Actors and Industry Structure
- Ch 3: The Different Payment Methods/Schemes
- Ch 4: Standards and Infrastructure
- Ch 5: Payment Operations

Ch 6: Key Revenue and Expense Drivers in the Payment Industry

Course 3- Regulatory, Compliance, Risk, Security and Privacy Aspects This course introduces learners to the regulatory environment and

regulatory bodies in di erent parts of the globe including the EU, US and Asia-Pacific. Industry experts will discuss the current and future payment trends as well as the actions being taken by regulators to support innovations in payments.

Ch 1: Payments Regulation: Understanding the who, what and why of payments Regulation in the European Union

Ch 2: Payment Regulation: Understanding the who, what and why of payments Regulation in the United States

Ch 3: Payments Regulation: Understanding the who, what and why of payments Regulation in Asia-Pacific

- Ch 4: Financial Crime Compliance
- Ch 5: Data Privacy and Cybersecurity
- Ch 6: The Emerging Payments' Regulatory Landscape

Course 4- New Technologies and Product Innovations

Explore a vast array of payment innovations in modern digital finance impacting the payments stack and how collaboration is crucial for banks to survive and thrive in the new normal. We also look at how new solutions can significantly reduce the risks of financial crime, explore the Internet of Things (IoT), and conclude with a discussion of some hot topics in payments today such as DLT and CBDCs.

Ch 1: Technology: What does a modern payments tech stack look like?

Ch 2: Technology-driven innovation in action. Key areas and actors Ch 3: Leveraging Data and Al to improve customer experience and Combat Fraud

Ch 4: The next frontier in Payments - Internet of Things (IoT) and Invisible Payments

Ch 5: Potential Impact of DLT and CDC on payments



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Learning Outcomes

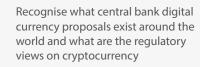
Understand money for what it truly is today and how it will change in the future

Learn how payments impact financial stability and monetary policy

Explore how global cybersecurity regulations continue to evolve



Understand what the modern full payments stack looks like







Jean-Michel Godeffrov Former Director General, ECB **Michael O'Loughlin** Founder, Oloughlin, io







Kim Ford Senior VP. Government Relations, Fiserv

Fred Bar Secretar General, EACHA





Option 2. Payments Specialisation

Course 5- Payment Product strategies & Business Model Innovations You will look at the business models of the payment industry and their evolution. With increased competition, multiple parties in the ecosystem race to faster and cheaper payments service. Explore what's the role of the players and ultimately who and how will they make money to survive and thrive.

Ch 1: The Payments Business: who makes money in payments Ch 2: Business Model enhancing advantage and value creation through innovaiton in payments

Ch 3: Data Monetisation and Identity Management Service Ch 4: Open Finance reshaping the Banking and Payments Industry

Course 6- Leveraging Payments ecosystem & Driving digital transformation in payments

How can an individual or organisation take steps to digitally transform themselves in the new digital payments ecosystem?

With payment methods transforming and traditional banking relations changing, senior executives need to set direction to ensure their nancial tooling remains fully supportive of the core business. Participants will understand the importance of digital transformation in the payments industry, from the ISO20022 revolution to Open Banking and IoT.

Ch 1: What needs to be transformed - the rationale for a digital transformation programme

Ch 2: How to kick-off and run a Payments DT/innovation programme Ch 3: Taking Inspiration & leveraging the Digital Payments ecosystem to transform your e-business

Ch 4: Taking inspiration & leveraging the Digital Payments ecosystem to transform your corporate

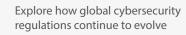




Learning Outcomes

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Understand what the modern full payments stack looks like







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Fred Bar Secretary General, EACHA

Ritesh Jain Former COO, HSBC

Kim Ford Senior VP, Government Relations, Fiserv

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Option 3. Open Banking Specialisation

Course 1- An Industry Overview of Open Banking

Learn the background and fundamental knowledge of a new stage of finance: platform ecosystems. Regulators and businesses, old and new, must work together to unlock the full potential of this consumer-centric movement. Lectures will cover the ABCs of Open Banking - how you should position yourself and your organisation.

Course 2- Business Models and Implementation of New Entrants

You will look at the different profiles and roles of new entrants in the finance industry as Third-Party Providers in the Open Banking ecosystem. Learn 5 recognised commercial opportunities enabled by the new technological architectures and the associated risks through a multitude of real use cases around the world.

Course 3- Business Models and Transformation of Incumbents

Understand why now is the right time for an incumbent financial institution to develop and execute a strategic plan for Open Banking. Examine possible business models that incumbent players could implement to monetise APIs, among other technologies. Discuss the success factors for incumbent banks to take advantage of open banking capabilities and trends, and how Open Banking can be the key enabler for the digital transformation of large financial institutions.

Course 4- Regulations, Standards and Operational Risks

Gain an overview of Open Banking regulations and how they can vary across different jurisdictions. Learn the differences between the Mandatory, Facilitative, and Market-driven approaches adopted to implement Open Banking through a detailed analysis of case studies from around the globe. Then look at the different types of data standards in-place and future possibilities in the field while outlining the risks and benefits of Open Banking.

Course 5- Technology and Security

This course gives a high-level explanation on Open Banking technologies, such as API technology and what kind of services are enabled by its implementation. Deep dive into topics of security, identity management, and access control in this new era of platform ecosystems. Finally, learn the software development process in services and the ways to navigate potential operational challenges.



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Learning Outcomes



Explore the business model that made Amazon a global superpower: the platform ecosystem



Understand the roles of third-party providers within the Open Banking ecosystem



Analyse the API business model in the Open Banking and Embedded Finance revolution

Understand the roles of third-party providers within the Open Banking ecosystem





Paul Rohan Head of Business Strategy, Solution Consultant, Google Cloud **Stephan Murer** Former Global Chief Technology Officer at UBS







Secil Watson Executive Vice President, Wells Fargo Carlos Figueredo CEO and Founder, Open Vector

Anna Maj intech & Payments Expert