The Use of AI & Machine Learning in the Financial Sector

Investment Studies Center (ISC) @ Union of Investment Companies are delighted to invite you to a training program aimed at providing participants with a deep dive into the impact of artificial intelligence (AI) and machine learning (ML) in the financial sector, according to the following details:	يسر مركز دراسات الاستثمار لدى اتحاد شركات الاستثمار الإعلان عن تنظيم برنامج تدريبي يهدف إلى تزويد المشاركين بتعمق في تأثير الذكاء الاصطناعي (AI) والتعلم الآلي (ML) في القطاع المالي، وفقاً للتفاصيل الآتية:

Training Program:	The Use of AI & Machine Learning in the Financial Sector	**البرنامج التدريبي:**
Instructor:	Dr. Arezou Harraf	**المحاضر:**
Dates:	Sunday, 01st December 2024	**التاريخ:**
Timing:	09:00AM – 03:00PM	**الوقت:**
Language:	English	**لغة البرنامج:**
Venue:	In Person at UIC Premises	**المكان:**
Course Details, Registration & Fees in link below		**تفاصيل البرنامج، التسجيل والرسوم في الرابط أدناه**

http://unioninvest.org/upcomingevents.aspx
Registration is open according to availability

Discounted Fees for UIC Members	KWD 95	**الرسوم بعد الخصم لأعضاء الاتحاد**
Non-Members	KWD 125	**غير أعضاء الاتحاد**

The Use of AI & Machine Learning in the Financial Sector

Introduction:

This training aims at providing participants with a deep dive into the impact of artificial intelligence (AI) and machine learning (ML) in the financial sector. From understanding the basics of these technologies to exploring their advanced applications in finance, the course covers a range of topics including risk assessment, fraud detection, automated trading, and ethical considerations. Participants will engage in practical exercises to apply ML algorithms in financial data analysis and gain insights into future trends of AI in finance.

Outline:

Module 1: Introduction to AI and Machine Learning (ML)

- Overview of AI and ML concepts
- Basic principles and algorithms
- Applications of AI in various industries

Practical Exercise 1: Implementing a basic machine learning algorithm in Python.

Module 2: AI in Financial Services Revolution

- The transformative impact of AI on financial services
- Opportunities and challenges in adopting AI
- Case studies showcasing successful AI implementations

Practical Exercise 2: Analyzing financial data using AI techniques to identify patterns and trends.

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Module 3: AI and ML in Risk Assessment and Fraud Detection

- ❖ Role of AI in risk assessment and fraud detection
- ❖ Comparison of AI-driven risk assessment with traditional methods
- ❖ Mitigating risks associated with AI implementation

Practical Exercise 3: Building a fraud detection model using machine learning algorithms.

Module 4: Exploring AI Technologies in Finance

- ❖ Fintech innovations and AI integration
- ❖ Blockchain applications in financial services
- ❖ Cloud computing and Big Data analytics
- ❖ Internet of Things (IoT) in financial operations

Practical Exercise 4: Implementing a blockchain-based solution for financial transactions**.**

Module 5: AI's Role in Automated Trading and Portfolio Management

- ❖ Automation of trading strategies using AI
- ❖ Portfolio management optimization with AI algorithms
- ❖ Case studies of AI-driven trading platforms

Practical Exercise 5: Developing a simulated automated trading system using AI.

Module 6: Market Trends and Future of Digitalization

- ❖ Emerging trends in AI and their impact on financial markets
- ❖ Future prospects of AI in digitalization and finance
- ❖ Strategies for staying ahead in an AI-driven market

Practical Exercise 6: Analyzing market trends using AI-powered analytics tools.

Module 7: Case Studies in AI and Financial Services Industry

- ❖ Global case studies demonstrating AI applications in Financial Services
- ❖ Lessons learned and best practices from successful implementations

Practical Exercise 7: Analyzing real-world Financial Services datasets to extract insights using AI techniques.

Objectives:

1. Introduce the fundamentals of machine learning (ML) and artificial intelligence (AI).
2. Explore the revolutionary impact of AI on financial services.
3. Discuss the application of AI and ML in risk assessment and fraud detection, including a comparison of the risks associated with AI.
4. Investigate various AI technologies (Fintech, Blockchain, cloud computing, Big Data, IoT) and their effects on the financial industry.
5. Understand AI's role in automated trading and portfolio management.
6. Provide insights into new market trends in AI and the future of digitalization.
7. Examine case studies showcasing AI's influence on the global banking industry.
8. Hands-on exercises to reinforce learning objectives.

Target Audience:

- All Staff

Expert's Profile: Dr. Arezou Harraf

An experienced educator, Dr. Arezou Harraf holds a Ph.D. in Technology Management and Human Resource Training and Development. She serves as the Head of the Department of Business Studies at Box Hill College Kuwait. She is a Visiting Assistant Professor at the University of Nevada Las Vegas during the summer term. She also serves as an academic advisor for several MBA students at Maastricht University.

Dr. Harraf is the founder and CEO of Learn & Evolve LLC. In this capacity, she helps organizations use strategy, science, and psychology to address workforce challenges such as low performance, productivity, turnover, and retention issues. Moreover, Dr. Harraf is co-founder of Amplify Women Leadership Boot-camp to train women with skills to help them advance to executive positions within their organizations and or become successful venture creators and entrepreneurs. With a focus on the future of technology and HR, she consults with organizations on improving existing in-house technology platforms to enhance features relating to HR and employee needs.

Dr. Harraf is vice-chairperson of the Board of Directors at ABCK-Am-Cham Kuwait, where she also leads the Women in Business and Knowledge Economic focus groups and holds additional memberships in the Academy of Human Resource Development, Academy of Human Resource Management, Chartered Institute of Personnel Development, Academy of Management, Women of Tech in MENA, and Graduate Women in Science.