AI & Fintech

§ Name of instructor
Marcos Machado, Jorg Osterrieder, Wouter van Heeswijk, University of Twente

Short Description:

This course provides a foundational introduction to Artificial Intelligence (AI) with a specific focus on its applications in the financial sector. The course begins with an overview of AI principles and concepts, led by Joerg. Following this, Marcos presents a detailed introduction to both supervised and unsupervised machine learning techniques, providing participants with essential knowledge of these core areas. Joerg then delves into the application of reinforcement learning (RL) in finance, explaining how RL techniques can be leveraged for financial decision-making and strategy development. The course culminates with a hands-on RL tutorial session conducted by Wouter, allowing participants to apply the theoretical concepts through practical exercises.

Schedule:

1. Intro to AI
2. Supervised and Unsupervised Machine Learning – An Introduction
3. Reinforcement Learning in Finance
4. Reinforcement Learning Tutorial Session

Facilities/Materials required:

- https://www.anaconda.com/
- https://jupyter.org/