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Python for Algorithmic Trading Yves

Hilpisch,2021-02-09 The financial industry is adopting Python at an increasing rate Top hedge funds use the language on a daily basis for quantitative research data exploration and analysis and for prototyping testing and executing trading strategies There s also a rise in trading activity by individuals and small groups of traders including many from the technology world This book is ideal for Python developers tech savvy discretionary traders data analysts and people who want to become Algo trading professionals or trade their own funds Author Yves Hilpisch focuses on the practical application of programming to trading rather than theoretical computer science If you re looking for a guide to help you perform algorithmic fully automated trading this book is for you

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people develop agents that play arcade games and board games at a superhuman level More recently RL DQL and similar methods have gained popularity in publications related to financial research This book is among the first to explore the use of reinforcement learning methods in finance Author Yves Hilpisch founder and CEO of The Python Quants provides the background you need in concise fashion ML practitioners financial traders portfolio managers strategists and analysts will focus on the implementation of these algorithms in the form of self contained Python code and the application to important financial problems This book covers Reinforcement learning Deep Q learning Python implementations of these algorithms How to apply the algorithms to financial problems such as algorithmic trading dynamic hedging and dynamic asset allocation This book is the ideal reference on this topic You ll read it once change the examples according to your needs or ideas and refer to it whenever you work with RL for finance Dr Yves Hilpisch is founder and CEO of The Python Quants a group that focuses on the use of open source technologies for financial data science AI asset management algorithmic trading and computational finance

Artificial Intelligence in Finance Yves Hilpisch,2020-10-14 The widespread adoption of AI and machine learning is revolutionizing many industries today Once these technologies are combined with the programmatic availability of historical and real time financial data the financial industry will also change fundamentally With this practical book you ll learn how to use AI and machine learning to discover statistical inefficiencies in financial markets and exploit them through algorithmic trading Author Yves Hilpisch shows practitioners students and academics in both finance and data science practical ways to apply machine learning and deep learning algorithms to finance Thanks to lots of self contained Python examples you ll be able to replicate all results and figures presented in the book In five parts this guide helps you Learn central notions and algorithms from AI including recent breakthroughs on the way to artificial general intelligence AGI and superintelligence SI Understand why data driven finance AI and machine learning will have a lasting impact on financial theory and practice Apply neural networks and reinforcement learning to discover statistical inefficiencies in financial markets Identify and exploit economic inefficiencies through backtesting and algorithmic trading the automated execution of trading strategies Understand how AI will influence the competitive dynamics in the financial industry and what the potential emergence of a financial singularity might bring about

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