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and risk analytics efforts   *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   The Ultimate Algorithmic Trading System Toolbox + Website George Pruitt,2016-04-22 The accessible beneficial guide to developing algorithmic trading solutions The Ultimate Algorithmic Trading System Toolbox is the complete package savvy investors have been looking for An integration of explanation and tutorial this guide takes you from utter novice to out the door trading solution as you learn the tools and techniques of the trade You ll explore the broad spectrum of today s technological offerings and use several to develop trading ideas using the provided source code and the author s own library and get practical advice on popular software packages including TradeStation TradersStudio MultiCharts Excel and more You ll stop making repetitive mistakes as you learn to recognize which paths you should not go down and you ll discover that you don t need to be a programmer to take advantage of the latest technology The companion website provides up to date TradeStation code Excel spreadsheets and instructional video and gives you access to the author himself to help you interpret and implement the included algorithms Algorithmic system trading isn t really all that new but the technology that lets you program evaluate and implement trading ideas is rapidly evolving This book helps you take advantage of these new capabilities to develop the trading solution you ve been looking for Exploit trading technology without a computer science degree Evaluate different trading systems strengths and weaknesses Stop making the same trading mistakes over and over again Develop a complete trading solution using provided source code and libraries New technology has enabled the average trader to easily implement their ideas at very low cost breathing new life into systems that were once not viable If you re ready to take advantage of the new trading environment but don t know where to start The Ultimate Algorithmic Trading System Toolbox will help you get on board quickly and easily   *Python for Algorithmic Trading* Yves Hilpisch,2020-11-12 Algorithmic trading once the exclusive

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