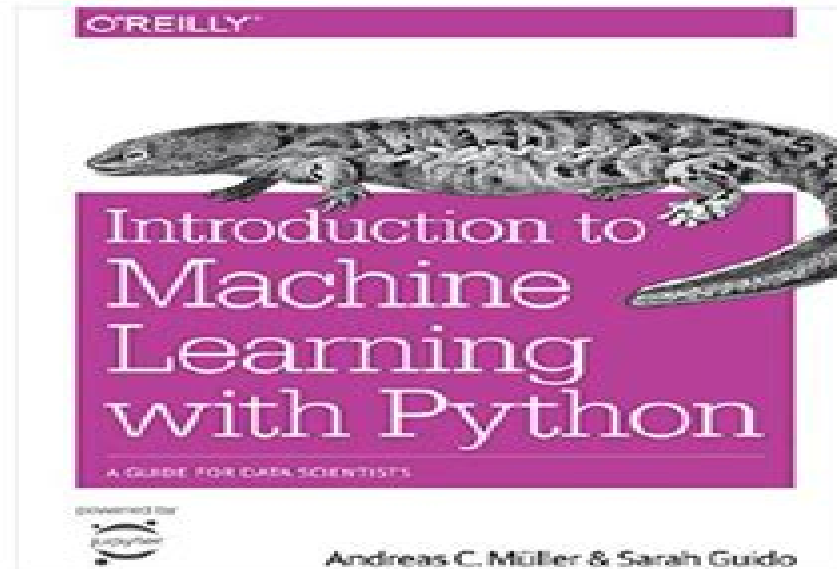


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computational disciplines in quantitative finance such as financial econometrics and discrete time stochastic control with an emphasis on how theory and hypothesis tests inform the choice of algorithm for financial data modeling and decision making With the trend towards increasing computational resources and larger datasets machine learning has grown into an important skillset for the finance industry This book is written for advanced graduate students and academics in financial econometrics mathematical finance and applied statistics in addition to quants and data scientists in the field of quantitative finance Machine Learning in Finance From Theory to Practice is divided into three parts each part covering theory and applications The first presents supervised learning for cross sectional data from both a Bayesian and frequentist perspective The more advanced material places a firm emphasis on neural networks including deep learning as well as Gaussian processes with examples in investment management and derivative modeling The second part presents supervised learning for time series data arguably the most common data type used in finance with examples in trading stochastic volatility and fixed income modeling Finally the third part presents reinforcement learning and its applications in trading investment and wealth management Python code examples are provided to support the readers understanding of the methodologies and applications The book also includes more than 80 mathematical and programming exercises with worked solutions available to instructors As a bridge to research in this emergent field the final chapter presents the frontiers of machine learning in finance from a researcher s perspective highlighting how many well known concepts in statistical physics are likely to emerge as important methodologies for machine learning in finance

Inflammation, Infection, and Microbiome in Cancers Jun Sun, 2021-04-20 This book offers a summary and discussion of the advances of inflammation and infection in various cancers The authors cover the classically known virus infections in cancer novel roles of other pathogens e g bacteria and fungi as well as biomarkers for diagnosis and therapy Further the chapters highlight the progress of immune therapy stem cells and the role of the microbiome in the pathophysiology of cancers Readers will gain insights into complex microbial communities that inhabit most external human surfaces and play a key role in health and disease Perturbations of host microbe interactions often lead to altered host responses that can promote cancer development Thus this book highlights emerging roles of the microbiome in pathogenesis of cancers and outcome of therapy The focus is on mechanistic concepts that underlie the complex relationships between host and microbes Approaches that can inhibit infection suppress chronic inflammation and reverse the dysbiosis are discussed as a means for restoring the balance between host and microbes This comprehensive work will be beneficial to researchers and students interested in infectious diseases microbiome and cancer as well as clinicians and general physiologists

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Advances in Databases and Information Systems Silvia Chiusano,Tania Cerquitelli,Robert Wrembel,2022-08-29 This book constitutes the proceedings of the 26th European Conference on Advances in Databases and Information Systems ADBIS 2022 held in Turin Italy in September 2022 The 23 full papers presented together with 5 keynote and tutorial papers were carefully reviewed and selected from 90 submissions The papers are organized in the following topical sections keynote talk and tutorials graph processing time series and data streams on line analytical processing advanced querying performance machine learning data science methods

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