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A foreign brokerage firm said that although the number of daily Covid-19 cases seems to have plateaued, the same still remains much

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Rising Delta variant cases make Covid-19 third wave real risk for India: Report
Amid fears of looming third wave of the coronavirus disease remains, rising cases of the Delta variant and the subsequent mutations of the virus have now made the probability look a real risk for ...

Delta variant surge in India is making COVID third wave look more real now: Report
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This book offers a concise survey of basic probability theory from a thoroughly subjective point of view whereby probability is a mode of judgment. Written by one of the greatest figures in the field ...

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Fat Chance

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You Can Trade, Inc. ("YouCanTrade") — a subsidiary of TradeStation Group, Inc. and an online investment education media service and community designed to help traders, active investors and anyone who ...

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There is a high probability that people in Sabah are still carrying out activities without complying with standard operating procedures (SOPs), despite various calls and recommendations made by the ...

High probability people in Sabah not following SOPs - Masidi

In that case, your output layer will have 1,000 numerical outputs, each of which contains the probability of the image ... making R-CNN unsuitable for real-time object detection.

Here's how deep learning helps computers detect objects

The Fed was effectively juicing the economy like so many late-90s baseball sluggers. Now,

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however, in the wake of the pandemic and the stimulus that followed, central banks may be contending with a ...

Rising Rates, Rising Stock Prices, and the Juiced Baseball

For a person seeking to maximize expected value, the traditional approach to decision theory is to take the amount of value in a payout and multiply it by the probability of that ... thing we've ever ...

Bitcoin And The St. Petersburg Game

The real signal, in Daly's noisy procrastination ... not to say careerist central bankers, will raise the probability that the Fed prints more than its fair share. Indeed, one may argue that ...

Don't Fight The Fed That Doesn't Fight You

On May 21, Capital Weather Gang published the perspective by Mike Smith titled "A decade after deadly Joplin tornado, warnings haven't improved. Here's how to fix them." In the piece ...

Forecasters don't need a review board to improve tornado warnings

On the heels of a grimly violent Fourth of July weekend, with more than 100 people shot and 17 killed, the last thing Chicago needs is city officials pointing fingers, columnist Rex Huppke writes.

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Column: Bail reform isn't to blame for Chicago's violence. And finger-pointing doesn't help.

In a tweet from the official "Real Time with Bill Maher" account ... the vast majority of Democrats incorrectly overestimate the probability of being hospitalized from COVID, with 41 percent ...

Bill Maher tests positive for coronavirus, 'Real Time' taping canceled

Join AI & data leaders at Transform 2021 on July 12th for the AI/ML Automation Technology Summit. Register today. Deep neural networks have gained fame for their capability to process visual ...

Overview of deep learning architectures computers use to detect objects

"Real Time" host Bill Maher had some tough words ... showed the vast majority of Democrats incorrectly overestimate the probability of being hospitalized from COVID, with 41 percent believing ...

Maher praises DeSantis, knocks Cuomo, 'liberal media' for getting COVID wrong: 'Those are just facts'

It kept the Giants in first place in the NL West ahead of the Los Angeles Dodgers, and served as the latest reason to believe that this team very much is for real. Throughout ... Looking at their win ...

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An introduction to analysis with the right mix of abstract theories and concrete problems. Starting with general measure theory, the book goes on to treat Borel and Radon measures and introduces the reader to Fourier analysis in Euclidean spaces with a treatment of Sobolev spaces, distributions, and the corresponding Fourier analysis. It continues with a Hilbertian treatment of the basic laws of probability including Doob's martingale convergence theorem and finishes with Malliavin's "stochastic calculus of variations" developed in the context of Gaussian measure spaces. This invaluable contribution gives a taste of the fact that analysis is not a collection of independent theories, but can be treated as a whole.

This is the first text in a generation to re-examine the purpose of the mathematical statistics course. The book's approach interweaves traditional topics with data analysis and reflects the use of the computer with close ties to the practice of statistics. The author stresses analysis of data, examines real problems with real data, and motivates the theory. The book's descriptive statistics, graphical displays, and realistic applications stand in strong contrast to traditional texts that are set in abstract settings. Important Notice: Media content referenced within the product

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An integrated package of powerful probabilistic tools and key applications in modern mathematical data science.

Nearly every Ph.D. student in mathematics needs to take a preliminary or qualifying examination in real analysis. This book provides the necessary tools to pass such an examination. Clarity: Every effort was made to made to present the material in as clear a fashion as possible. Lots of exercises: Over 220 exercises, ranging from routine to challenging, are presented. Many are taken from preliminary examinations given at major universities. Affordability: The book is priced at well under \$20.

For almost fifty years, Richard M. Dudley has been extremely influential in the development of several areas of Probability. His work on Gaussian processes led to the understanding of the basic fact that their sample boundedness and continuity should be characterized in terms of proper measures of complexity of their parameter spaces equipped with the intrinsic covariance metric. His sufficient condition for sample continuity in terms of metric entropy is widely used and was proved by X. Fernique to be necessary for stationary Gaussian processes, whereas its more subtle versions (majorizing measures)

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were proved by M. Talagrand to be necessary in general. Together with V. N. Vapnik and A. Y. Cervonenkis, R. M. Dudley is a founder of the modern theory of empirical processes in general spaces. His work on uniform central limit theorems (under bracketing entropy conditions and for Vapnik-Cervonenkis classes), greatly extends classical results that go back to A. N. Kolmogorov and M. D. Donsker, and became the starting point of a new line of research, continued in the work of Dudley and others, that developed empirical processes into one of the major tools in mathematical statistics and statistical learning theory. As a consequence of Dudley's early work on weak convergence of probability measures on non-separable metric spaces, the Skorohod topology on the space of regulated right-continuous functions can be replaced, in the study of weak convergence of the empirical distribution function, by the supremum norm. In a further recent step Dudley replaces this norm by the stronger p -variation norms, which then allows replacing compact differentiability of many statistical functionals by Fréchet differentiability in the delta method. Richard M. Dudley has also made important contributions to mathematical statistics, the theory of weak convergence, relativistic Markov processes, differentiability of nonlinear operators and several other areas of mathematics. Professor Dudley has been the adviser to thirty PhD's and is a Professor of Mathematics at the

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This multi-authored effort, *Mathematics of the nineteenth century (to be followed by Mathematics of the twentieth century)*, is a sequel to the *History of mathematics from antiquity to the early nineteenth century*, published in three volumes from 1970 to 1972. For reasons explained below, our discussion of twentieth-century mathematics ends with the 1930s. Our general objectives are identical with those stated in the preface to the three-volume edition, i. e. , we consider the development of mathematics not simply as the process of perfecting concepts and techniques for studying real-world spatial forms and quantitative relationships but as a social process as well. Mathematical structures, once established, are capable of a certain degree of autonomous development. In the final analysis, however, such immanent mathematical evolution is conditioned by practical activity and is either self-directed or, as is most often the case, is determined by the needs of society. Proceeding from this premise, we intend, first, to unravel the forces that shape mathematical progress. We examine the interaction of mathematics with the social structure, technology, the natural sciences, and philosophy. Through an analysis of mathematical history proper, we hope to delineate the relationships among the various mathematical disciplines and to evaluate

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mathematical achievements in the light of the current state and future prospects of the science. The difficulties confronting us considerably exceeded those encountered in preparing the three-volume edition.

Based on the authors' combined 35 years of experience in teaching, *A Basic Course in Real Analysis* introduces students to the aspects of real analysis in a friendly way. The authors offer insights into the way a typical mathematician works observing patterns, conducting experiments by means of looking at or creating examples, trying to understand the underlying principles, and coming up with guesses or conjectures and then proving them rigorously based on his or her explorations. With more than 100 pictures, the book creates interest in real analysis by encouraging students to think geometrically. Each difficult proof is prefaced by a strategy and explanation of how the strategy is translated into rigorous and precise proofs. The authors then explain the mystery and role of inequalities in analysis to train students to arrive at estimates that will be useful for proofs. They highlight the role of the least upper bound property of real numbers, which underlies all crucial results in real analysis. In addition, the book demonstrates analysis as a qualitative as well as quantitative study of functions, exposing students to arguments that fall under hard analysis. Although there are many

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books available on this subject, students often find it difficult to learn the essence of analysis on their own or after going through a course on real analysis. Written in a conversational tone, this book explains the hows and whys of real analysis and provides guidance that makes readers think at every stage.

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to

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test understanding. Programming tutorials are offered on the book's web site.

The Book of R is a comprehensive, beginner-friendly guide to R, the world's most popular programming language for statistical analysis. Even if you have no programming experience and little more than a grounding in the basics of mathematics, you'll find everything you need to begin using R effectively for statistical analysis. You'll start with the basics, like how to handle data and write simple programs, before moving on to more advanced topics, like producing statistical summaries of your data and performing statistical tests and modeling. You'll even learn how to create impressive data visualizations with R's basic graphics tools and contributed packages, like ggplot2 and ggvis, as well as interactive 3D visualizations using the rgl package. Dozens of hands-on exercises (with downloadable solutions) take you from theory to practice, as you learn:

- The fundamentals of programming in R, including how to write data frames, create functions, and use variables, statements, and loops
- Statistical concepts like exploratory data analysis, probabilities, hypothesis tests, and regression modeling, and how to execute them in R
- How to access R's thousands of functions, libraries, and data sets
- How to draw valid and useful conclusions from your data
- How to create publication-quality

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graphics of your results. Combining detailed explanations with real-world examples and exercises, this book will provide you with a solid understanding of both statistics and the depth of R's functionality. Make The Book of R your doorway into the growing world of data analysis.

New up-to-date edition of this influential classic on Markov chains in general state spaces. Proofs are rigorous and concise, the range of applications is broad and knowledgeable, and key ideas are accessible to practitioners with limited mathematical background. New commentary by Sean Meyn, including updated references, reflects developments since 1996.

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