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An Introduction to Statistical Learning, with Applications in R (ISLR) can be considered a less advanced treatment of the topics found in another classic of the genre written by some of the same authors, The Elements of Statistical Learning. This Second Edition features new chapters on deep learning, survival analysis, and multiple testing, as well as expanded treatments of naive Bayes, generalized linear models, Bayesian additive regression trees, and matrix completion. You get R for free from . Of course you may not distribute printed versions of that pdf file. The book also contains a number of R labs with detailed explanations on how to implement the various methods in real life settings, and should be a valuable resource for a practicing data scientist. About the Authors Gareth James is the E. Want to learn about implementing linear models in R? From the book's website: This book provides an introduction to statistical learning methods. An Introduction to Statistical Learning covers many of the same topics, but at a level accessible to a much broader audience. But don't take my word for it! Some reviews of and reactions to this book from influential readers: "ISL makes modern methods accessible to a wide audience without requiring a background in Statistics or Computer Science. R code has been updated throughout to ensure compatibility. Another major difference between these 2 titles, beyond the level of depth of the material covered, is that ISLR introduces these topics alongside practical implementations in a programming language, in this case R. There are lectures devoted to R, giving tutorials from the ground up, and progressing with more detailed sessions that implement the techniques in each chapter. Computing is done in R. However, the community of users of statistical learning techniques has expanded to include individuals with a wider range of interests and backgrounds. Springer has agreed to this, so no need to worry about copyright. Anyone who wants to intelligently analyze complex data should own this book." —Larry Wasserman, Professor, Department of Statistics and Department of Machine Learning, CMU. Title An Introduction to Statistical Learning: with Applications in R Author(s) Gareth James, Daniela Witten, Trevor Hastie, Robert Tibshirani Publisher: Springer; 2nd ed. Related: Daniela Witten is a professor of statistics and biostatistics at the University of Washington. This book is targeted at statisticians and non-statisticians alike who wish to use cutting-edge statistical learning techniques to analyze their data. Yes, The book, a staple of statistical learning texts, is accessible to readers of all levels, and can be read without much of an existing foundational knowledge in the area. Furthermore, there are Python versions of those examples in the following Github repository: You can access a PDF here. Already have a good understanding of classification concepts, but want to implement them using R? Also, note that, while the book's exercises are in R, Giannis Tolios has pointed out the following on Facebook: This book is a great introduction to the theoretical aspect of machine learning. This book presents some of the most important modeling and prediction techniques, along with relevant applications. The book's table of contents is as follows: Introduction Statistical Learning Linear Regression Classification Resampling Methods Linear Model Selection and Regularization Moving Beyond Linearity Tree-Based Methods Support Vector Machines Unsupervised Learning There are lots of books available, including free ones, on the ample theory involved in data science and machine (and statistical) learning. Some unsupervised learning methods are discussed: principal components and clustering (k-means and hierarchical). Color graphics and real-world examples are used to illustrate the methods presented. The pdf for this book is available for free on the book website. Overview of statistical learning Linear regression Classification Resampling methods Linear model selection and regularization Moving beyond linearity Tree-based methods Support vector machines Deep learning Survival modeling Unsupervised learning Multiple testing Do I need to buy a textbook? However a free online version of An Introduction to Statistical Learning, with Applications in R (second edition) by James, Witten, Hastie and Tibshirani (Springer, 2021) is available from that website. 123, No. 7 (August-September 2016). It's chock full of interesting examples of how modern predictive machine learning algorithms work (and don't work) in a variety of settings." —Matthew Richey, The American Mathematical Monthly, Vol. This time, let's check out another classic of the genre, An Introduction to Statistical Learning, with Applications in R, written by Gareth James, Daniela Witten, Trevor Hastie and Robert Tibshirani. Since the goal of this textbook is to facilitate the use of these statistical learning techniques by practitioners in science, industry, and other fields, each chapter contains a tutorial on implementing the analyses and methods presented in R, an extremely popular open source statistical software platform. How many hours of effort are expected per week? Again, this book's for you. Topics include linear regression, classification, resampling methods, shrinkage approaches, tree-based methods, support vector machines, clustering, and more. It should be apparent from the website and book excerpts and table of contents above (and perhaps even the title) that this book focuses on the practical. This book's for you. The authors give precise, practical explanations of what methods are available, and when to use them, including explicit R code. Two of the authors co-wrote The Elements of Statistical Learning (Hastie, Tibshirani and Friedman, 2nd edition 2009), a popular reference book for statistics and machine learning researchers. Best of luck with the latest free eBook in our growing collection. Progress at your own speedOptional upgrade availableThis is an introductory-level course in supervised learning, with a focus on regression and classification methods. We focus on what we consider to be the important elements of modern data science. In case you are a Python developer, and are deterred by the use of R, you should reconsider, as R is only used for the practical examples at the end of each chapter. (2021); eBook (Online Edition, First printing, 2021) Hardcover 622 pages eBook PDF (612 pages) Language: English ISBN-10: 1071614177 ISBN-13: 978-1071614174 Share This: Book Description This book provides an accessible overview of the field of Statistical Learning, an essential toolset for making sense of the vast and complex data sets that have emerged in fields ranging from biology to finance to marketing to astrophysics in the past twenty years. Code for the labs in the book are available here. The book's preface explicitly addresses the relationship between these 2 texts, as well as potential readership: We consider ESL to be an important companion for professionals (with graduate degrees in statistics, machine learning, or related fields) who need to understand the technical details behind statistical learning approaches. Therefore, we believe that there is now a place for a less technical and more accessible version of ESL. The lectures cover all the material in An Introduction to Statistical Learning, with Applications in R (second edition) by James, Witten, Hastie and Tibshirani (Springer, 2021). You get RStudio from also for free, and a similarly easy install. Next week will bring another. Interested in effectively implement support vector machines using R? Trevor Hastie and Robert Tibshirani are professors of statistics at Stanford University, and are co-authors of the successful textbook Elements of Statistical Learning. The text assumes only a previous course in linear regression and no knowledge of matrix algebra. Morgan Stanley Chair in Business Administration and a professor of data sciences and operations at the Marshall School of Business at the University of Southern California. The book is nice to own, and is available on Amazon and other booksellers.. This is not a math-heavy class, so we try and describe the methods without heavy reliance on formulas and complex mathematics. If you have some idea of the theoretical concepts related to the topics in the table of contents, ISLR is especially helpful. The syllabus includes: linear and polynomial regression, logistic regression and linear discriminant analysis; cross-validation and the bootstrap, model selection and regularization methods (ridge and lasso); nonlinear models, splines and generalized additive models; tree-based methods, random forests and boosting; support-vector machines; neural networks and deep learning; survival models; multiple testing. We anticipate it will take approximately 3-5 hours per week to go through the materials and exercises in each section. Typically it installs with a click. It is aimed for upper level undergraduate students, masters students and Ph.D. students in the non-mathematical sciences. Is R and RStudio available for free? Reviews, Ratings, and Recommendations: Amazon Amazon (The Elements of Statistical Learning) Related Book Categories: Read and Download Links: Similar Books: After taking a week off, here's another free eBook offering to add to your collection. "It's thorough, lively, written at level appropriate for undergraduates and usable by nonexperts.

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