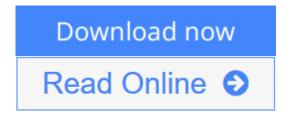# Data Analysis with R

By Tony Fischetti

Data Analysis with R By Tony Fischetti

Key Features

- Load, manipulate and analyze data from different sources
- Gain a deeper understanding of fundamentals of applied statistics
- A practical guide to performing data analysis in practice

Book Description

Frequently the tool of choice for academics, R has spread deep into the private sector and can be found in the production pipelines at some of the most advanced and successful enterprises. The power and domain-specificity of R allows the user to express complex analytics easily, quickly, and succinctly. With over 7,000 user contributed packages, it's easy to find support for the latest and greatest algorithms and techniques.

Starting with the basics of R and statistical reasoning, Data Analysis with R dives into advanced predictive analytics, showing how to apply those techniques to real-world data though with real-world examples.

Packed with engaging problems and exercises, this book begins with a review of R and its syntax. From there, get to grips with the fundamentals of applied statistics and build on this knowledge to perform sophisticated and powerful analytics. Solve the difficulties relating to performing data analysis in practice and find solutions to working with messy data , large data, communicating results, and facilitating reproducibility.

This book is engineered to be an invaluable resource through many stages of anyone's career as a data analyst.

What you will learn

- Navigate the R environment
- Describe and visualize the behavior of data and relationships between data
- Gain a thorough understanding of statistical reasoning and sampling
- Employ hypothesis tests to draw inferences from your data
- Learn Bayesian methods for estimating parameters

- Perform regression to predict continuous variables
- Apply powerful classification methods to predict categorical data
- Handle missing data gracefully using multiple imputation
- Identify and manage problematic data points
- Employ parallelization and Rcpp to scale your analyses to larger data
- Put best practices into effect to make your job easier and facilitate reproducibility

About the Author

Tony Fischetti is a data scientist at College Factual, where he gets to use R everyday to build personalized rankings and recommender systems. He graduated in cognitive science from Rensselaer Polytechnic Institute, and his thesis was strongly focused on using statistics to study visual short-term memory.

Tony enjoys writing and and contributing to open source software, blogging at onthelambda.com, writing about himself in third person, and sharing his knowledge using simple, approachable language and engaging examples.

The more traditionally exciting of his daily activities include listening to records, playing the guitar and bass (poorly), weight training, and helping others.

Table of Contents

1. RefresheR
2. The Shape of Data
3. Describing Relationships
4. Probability
5. Using Data to Reason About the World
6. Testing Hypotheses
7. Bayesian Methods
8. Predicting Continuous Variables
9. Predicting Categorical Variables
10. Sources of Data
11. Dealing with Messy Data
12. Dealing with Large Data
13. Reproducibility and Best Practices

⬇ **Download** Data Analysis with R ...pdf

📄 **Read Online** Data Analysis with R ...pdf

Data Analysis with R

By Tony Fischetti

Data Analysis with R By Tony Fischetti

Key Features

- Load, manipulate and analyze data from different sources
- Gain a deeper understanding of fundamentals of applied statistics
- A practical guide to performing data analysis in practice

Book Description

Frequently the tool of choice for academics, R has spread deep into the private sector and can be found in the production pipelines at some of the most advanced and successful enterprises. The power and domain-specificity of R allows the user to express complex analytics easily, quickly, and succinctly. With over 7,000 user contributed packages, it's easy to find support for the latest and greatest algorithms and techniques.

Starting with the basics of R and statistical reasoning, Data Analysis with R dives into advanced predictive analytics, showing how to apply those techniques to real-world data though with real-world examples.

Packed with engaging problems and exercises, this book begins with a review of R and its syntax. From there, get to grips with the fundamentals of applied statistics and build on this knowledge to perform sophisticated and powerful analytics. Solve the difficulties relating to performing data analysis in practice and find solutions to working with messy data , large data, communicating results, and facilitating reproducibility.

This book is engineered to be an invaluable resource through many stages of anyone's career as a data analyst.

What you will learn

- Navigate the R environment
- Describe and visualize the behavior of data and relationships between data
- Gain a thorough understanding of statistical reasoning and sampling
- Employ hypothesis tests to draw inferences from your data
- Learn Bayesian methods for estimating parameters
- Perform regression to predict continuous variables
- Apply powerful classification methods to predict categorical data
- Handle missing data gracefully using multiple imputation
- Identify and manage problematic data points
- Employ parallelization and Rcpp to scale your analyses to larger data
- Put best practices into effect to make your job easier and facilitate reproducibility

About the Author

Tony Fischetti is a data scientist at College Factual, where he gets to use R everyday to build personalized rankings and recommender systems. He graduated in cognitive science from Rensselaer Polytechnic

Institute, and his thesis was strongly focused on using statistics to study visual short-term memory.

Tony enjoys writing and and contributing to open source software, blogging at onthelambda.com, writing about himself in third person, and sharing his knowledge using simple, approachable language and engaging examples.

The more traditionally exciting of his daily activities include listening to records, playing the guitar and bass (poorly), weight training, and helping others.

Table of Contents

Data Analysis with R By Tony Fischetti Bibliography

- Sales Rank: #428614 in Books
- Published on: 2015-12-22
- Released on: 2015-12-22
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .88" w x 7.50" l, 1.46 pounds
- Binding: Paperback
- 446 pages

⬇ **Download** Data Analysis with R ...pdf

📄 **Read Online** Data Analysis with R ...pdf

Download and Read Free Online Data Analysis with R By Tony Fischetti

Editorial Review

Users Review

From reader reviews:

Bruce Brown:

In other case, little individuals like to read book Data Analysis with R. You can choose the best book if you appreciate reading a book. So long as we know about how is important the book Data Analysis with R. You can add know-how and of course you can around the world by a book. Absolutely right, mainly because from book you can recognize everything! From your country right up until foreign or abroad you will end up known. About simple matter until wonderful thing you may know that. In this era, we are able to open a book or even searching by internet gadget. It is called e-book. You can utilize it when you feel weary to go to the library. Let's read.

Rose Villegas:

Playing with family inside a park, coming to see the marine world or hanging out with good friends is thing that usually you could have done when you have spare time, in that case why you don't try thing that really opposite from that. A single activity that make you not experience tired but still relaxing, trilling like on roller coaster you already been ride on and with addition of information. Even you love Data Analysis with R, you may enjoy both. It is very good combination right, you still wish to miss it? What kind of hang-out type is it? Oh can occur its mind hangout folks. What? Still don't get it, oh come on its known as reading friends.

Melba More:

Beside this Data Analysis with R in your phone, it can give you a way to get more close to the new knowledge or facts. The information and the knowledge you are going to got here is fresh through the oven so don't possibly be worry if you feel like an previous people live in narrow commune. It is good thing to have Data Analysis with R because this book offers to your account readable information. Do you occasionally have book but you don't get what it's about. Oh come on, that won't happen if you have this inside your hand. The Enjoyable blend here cannot be questionable, including treasuring beautiful island. Use you still want to miss this? Find this book along with read it from now!

Kelsey Jimenez:

With this era which is the greater man or woman or who has ability to do something more are more precious than other. Do you want to become among it? It is just simple approach to have that. What you are related is just spending your time little but quite enough to experience a look at some books. On the list of books in the top collection in your reading list is Data Analysis with R. This book that is certainly qualified as The

Hungry Hillsides can get you closer in becoming precious person. By looking right up and review this reserve you can get many advantages.

Download and Read Online Data Analysis with R By Tony Fischetti #UBP5XDZCN79

Read Data Analysis with R By Tony Fischetti for online ebook

Data Analysis with R By Tony Fischetti Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Data Analysis with R By Tony Fischetti books to read online.

Online Data Analysis with R By Tony Fischetti ebook PDF download

Data Analysis with R By Tony Fischetti Doc

Data Analysis with R By Tony Fischetti Mobipocket

Data Analysis with R By Tony Fischetti EPub