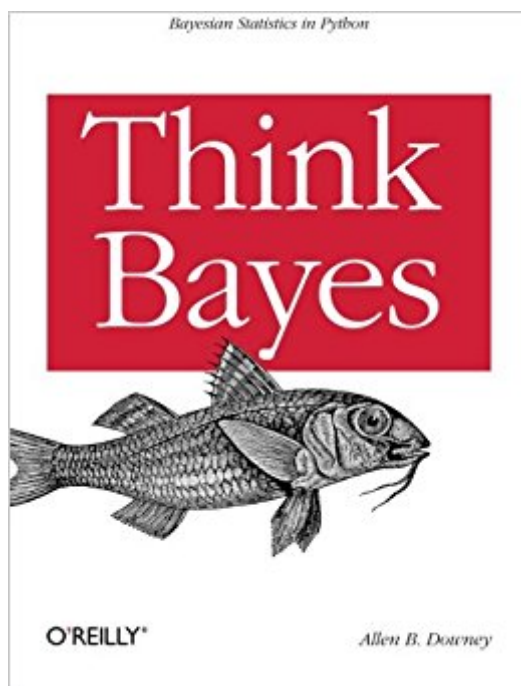The book was found

Think Bayes: Bayesian Statistics In Python

Synopsis

If you know how to program with Python and also know a little about probability, youâ ™re ready to tackle Bayesian statistics. With this book, you'll learn how to solve statistical problems with Python code instead of mathematical notation, and use discrete probability distributions instead of continuous mathematics. Once you get the math out of the way, the Bayesian fundamentals will become clearer, and youâ ™ll begin to apply these techniques to real-world problems.Bayesian statistical methods are becoming more common and more important, but not many resources are available to help beginners. Based on undergraduate classes taught by author Allen Downey, this bookâ ™s computational approach helps you get a solid start.Use your existing programming skills to learn and understand Bayesian statisticsWork with problems involving estimation, prediction, decision analysis, evidence, and hypothesis testingGet started with simple examples, using coins, M&Ms, Dungeons & Dragons dice, paintball, and hockeyLearn computational methods for solving real-world problems, such as interpreting SAT scores, simulating kidney tumors, and modeling the human microbiome.

Book Information

Paperback: 214 pages

Publisher: O'Reilly Media; 1 edition (October 4, 2013)

Language: English

ISBN-10: 1449370780

ISBN-13: 978-1449370787

Product Dimensions: 7 x 0.4 x 9.2 inches

Shipping Weight: 12.6 ounces (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars   23 customer reviews

Best Sellers Rank: #94,754 in Books (See Top 100 in Books)   #7 inÂ Books > Science & Math > Mathematics > Research   #56 inÂ Books > Science & Math > Mathematics > Mathematical Analysis   #80 inÂ Books > Computers & Technology > Databases & Big Data > Data Processing

Customer Reviews

Allen Downey is a Professor of Computer Science at the Olin College of Engineering. He has taught computer science at Wellesley College, Colby College and U.C. Berkeley. He has a Ph.D. in Computer Science from U.C. Berkeley and Masterâ ™s and Bachelorâ ™s degrees from MIT.

Should you buy this book given that the only other review as of this time is a negative review (based

on the lack of a table of contents)? Hmm, that is exactly the sort of decision analysis that is covered by this book. Should you wait for the next train or catch a taxi instead? Or what about the classic Monty Hall problem where there is car hidden behind one of three doors in a TV game show? The contestant picks a door, but prior to opening it, the host opens another door which does not contain the car and then offers the contestant the opportunity to 'stick' to his current selection or 'switch' to the other door. Should the contestant 'stick' or 'switch'? Bayes's Theorem provides a rationale for making this decision and this book covers all of this and more.This is a great book and a good introduction to the application of Bayes's Theorem in a number of scenarios. The theoretical aspects are well accessible and the Python code is sufficiently clear. This is not an introduction to Python and readers should be relatively familiar with Python or other high level languages to make the most out of this book.The PDF for the book is freely available from Green Tea Press. If you are concerned about the lack of a table of contents in the mobi version, get the paper copy until this is resolved... I would highly recommend it.

This is one of several introductory level books written by Dr. Downey recently. All of them are excellent.In this book, he gives a clear introduction to Bayesian analysis using well through out examples and Python code. There is a small amount of math. He makes very effective use of probability density functions, cumulative distribution functions, and simulations.He provides multiple examples of model development, including design, testing, and analysis.The book is appropriate and effective for self study. Highly recommended.

Great book to simplify the Bayes process. It goes into basic detail as a real how-to. This is not an academic text but a book to teach how to use Bayes for everyday problems.

No problems

The book is pretty good in explaining the basic idea behind Bayesian approach. You must know some probability theory to understand it. However, with more complicated examples, the author suggests his Python code instead of explanation, and ask us not to worry, because the code (which we can download if we want) is working.

Great book, the sample code is easy to use. Only complaint is that the code is python 2.7 compliant and not 3.x

It isn't a deep treatment of the subject but it gives working examples to help with basic ideas. Not a production ready line of code for serious work but useful.

Very good book. I wished I had a better understanding of python. If that were the case I would have probably given this book a 5 star rating. Aside from that, I liked the way the author presented the material. It was practical and easy to understand.

Think Bayes: Bayesian Statistics in Python Python: The Complete Python Quickstart Guide (For Beginner's) (Python, Python Programming, Python for Dummies, Python for Beginners) Python: Programming: Your Step By Step Guide To Easily Learn Python in 7 Days (Python for Beginners, Python Programming for Beginners, Learn Python, Python Language) Hacking with Python: Beginner's Guide to Ethical Hacking, Basic Security, Penetration Testing, and Python Hacking (Python Programming, Hacking, Python Coding, Python and Hacking Book 3) PYTHON: PYTHON'S COMPANION, A STEP BY STEP GUIDE FOR BEGINNERS TO START CODING TODAY! (INCLUDES A 6 PAGE PRINTABLE CHEAT SHEET)(PYTHON FOR BEGINNERS, PYTHON FOR DUMMIES, PYTHON PROGRAMMING) Statistics for People Who (Think They) Hate Statistics (Salkind, Statistics for People Who(Think They Hate Statistics(Without CD)) Python Programming: Python Programming for Beginners, Python Programming for Intermediates, Python Programming for Advanced PYTHON: LEARN PYTHON in A Day and MASTER IT WELL. The Only Essential Book You Need To Start Programming in Python Now. Hands On Challenges INCLUDED! (Programming for Beginners, Python) Applied Bayesian Statistics: With R and OpenBUGS Examples (Springer Texts in Statistics) Python: Learn Python in a Day and Master It Well: The Only Essential Book You Need to Start Programming in Python Now Maya Python for Games and Film: A Complete Reference for Maya Python and the Maya Python API Python Programming: An In-Depth Guide Into The Essentials Of Python Programming (Included: 30+ Exercises To Master Python in No Time!) Python: The Fundamentals Of Python Programming: A Complete Beginners Guide To Python Mastery. A First Course in Bayesian Statistical Methods (Springer Texts in Statistics) Bayesian Filtering and Smoothing (Institute of Mathematical Statistics Textbooks) Bayesian Survival Analysis (Springer Series in Statistics) Think Python: How to Think Like a Computer Scientist Statistics for People Who (Think They) Hate Statistics Statistics for People Who (Think They) Hate Statistics, 4th Statistics for People Who (Think They) Hate Statistics: Using Microsoft Excel 2016

Contact Us

DMCA

Privacy

FAQ & Help