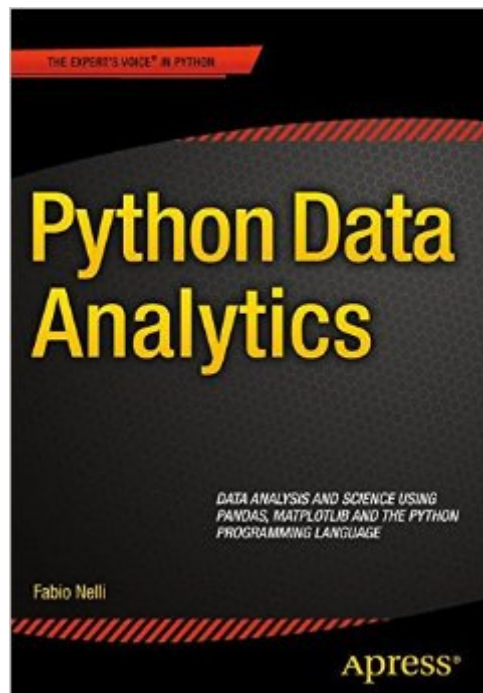# Python Data Analytics: Data Analysis And Science Using Pandas, Matplotlib And The Python Programming Language

Synopsis

Python Data Analytics will help you tackle the world of data acquisition and analysis using the power of the Python language. At the heart of this book lies the coverage of pandas, an open source, BSD-licensed library providing high-performance, easy-to-use data structures and data analysis tools for the Python programming language.Author Fabio Nelli expertly shows the strength of the Python programming language when applied to processing, managing and retrieving information. Inside, you will see how intuitive and flexible it is to discover and communicate meaningful patterns of data using Python scripts, reporting systems, and data export. This book examines how to go about obtaining, processing, storing, managing and analyzing data using the Python programming language.You will use Python and other open source tools to wrangle data and tease out interesting and important trends in that data that will allow you to predict future patterns. Whether you are dealing with sales data, investment data (stocks, bonds, etc.), medical data, web page usage, or any other type of data set, Python can be used to interpret, analyze, and glean information from a pile of numbers and statistics.Â This book is an invaluable reference with its examples of storing and accessing data in a database; it walks you through the process of report generation; it provides three real world case studies or examples that you can take with you for your everyday analysis needs.

Book Information

Paperback: 337 pages

Publisher: Apress; 1st ed. edition (August 21, 2015)

Language: English

ISBN-10: 1484209591

ISBN-13: 978-1484209592

Product Dimensions: 7 x 0.8 x 10 inches

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

Average Customer Review: 3.3 out of 5 starsÂ Â See all reviewsÂ (3 customer reviews)

Best Sellers Rank: #1,323,800 in Books (See Top 100 in Books)   #253 inÂ Books > Computers & Technology > Programming > Languages & Tools > Compilers   #672 inÂ Books > Computers & Technology > Databases & Big Data > Data Mining   #862 inÂ Books > Computers & Technology > Programming > Languages & Tools > Python

Customer Reviews

I am a blogger, writing articles for various programming languages, that I find interesting. Lately for

Python. I was provided with a paper version of the book from Apress, after a request from my site.So, the book is named "Python Data Analytics" and it provides exactly what it says. It shows you how to use Python step-by-step for Data Analytics. The important libraries in Python - NumPy, Pandas, MatPlotLib are presented in literally step-by-step introduction - from their installation to about 70-80 % of their properties and functions. The step-by-step approach really shows you what to write in the Python shell and what to expect. Furthermore, some mathematical operations (e.g. matrix multiplication) are well explained with pictures.What a lot of people may not like is the way the book is written - one should copy and paste the code from the book to his PC manually. It is already 21. century outside, if you are writing a programming book, please share your code for everyone. The code, that was shared in the [...] site was really just a tiny part of the one in the book and it was mainly some useless outputs. :(Why did you share it at all? Who needs output of sample tables?Furthermore, the first chapter looks like a copy-paste from an introduction of a mediocre master thesis. It reminded me of mine. :) At the end of the hate section - there is a whole appendix with Mathematical Expressions with LaTeX, containing 10 pages. This would have been really useful ... 25 years ago (I am repeating myself - its 2015 outside, anyone who uses LaTeX probably can use search engines as well). The time when the books were ending at the end with copied libraries must be over. Or I have thought so.

Wishing to learn Pandas, I started by buying and reading "Python for Data Analysis" by Wes McKinney, the author of Pandas. I then went ahead and bought the other Pandas-related titles available on :"Learning the Pandas Library" by Matt Harrison, 212 pages, (self-)published in 2016, Ã Â£18 for a hardcopy"Learning pandas" by Michael Heydt, 504 pages, Packt, 2015, Ã Â£38"Mastering pandas" by Femi Anthony, 364 pages, Packt, 2015, Ã Â£33"Python Data Analytics" by Fabio Nelli, 364 pages, Apress, 2015, Ã Â£23pretty much for the sake of due diligence, not expecting any of the titles to beat "Python for Data Analysis", a definite keeper.I started with "Learning the Pandas library", the thinnest of the bunch, and quickly decided to send it back to : the book could not add to, or replace, "Python for Data Analysis".I reached the same conclusion on "Mastering pandas": the book could not compete with "Python for Data Analysis" on Pandas coverage, and sought to differentiate itself with statistics and machine-learning content, but the latter did not impress.Now, "Python Data Analytics" has by far the least - less than 50 pages? - to say about Pandas, which immediately removes it from consideration as a "Pandas book". Still, it makes a good impression. The book's core is probably coverage of matplotlib - basic, not long, but thoughtful and useful - and then it, like "Mastering pandas" before it, goes into machine-learning

territory, and again does a basic but decent job. If I had to choose between "Mastering pandas" and "Python Data Analytics", I would immediately pick "Python Data Analytics".

Hacking: Tapping into the Matrix Tips, Secrets, steps, hints, and hidden traps to hacking: Hacker, Computer, Programming, Security & Encryption Jack and the Hungry Giant Eat Right With Myplate Information Architecture: For the Web and Beyond Keep Your Love On: Connection Communication And Boundaries The Smarter Screen: Surprising Ways to Influence and Improve Online Behavior The New Rules for Love, Sex, and Dating A Lifelong Love: How to Have Lasting Intimacy, Friendship, and Purpose in Your Marriage Beautiful Data: A History of Vision and Reason since 1945 (Experimental Futures) Garden City: Work, Rest, and the Art of Being Human. Fear and Faith: Finding the Peace Your Heart Craves To Heaven and Back: The Journey of a Roman Catholic Priest A Doctor's Tools (Community Helpers and Their Tools) Why Suffering?: Finding Meaning and Comfort When Life Doesn't Make Sense Rainbow Warriors and the Golden Bow: Yoga Adventure for Children (Rainbow Warriors Yoga Series) Touching Heaven: A Cardiologist's Encounters with Death and Living Proof of an Afterlife Machines of Loving Grace: The Quest for Common Ground Between Humans and Robots Husband After God: Drawing Closer To God And Your Wife Sex is a Funny Word: A Book about Bodies, Feelings, and YOU Learn Command Line and Batch Script Fast, Vol II: A course from the basics of Windows to the edge of networking How to Start a Business Analyst Career: The handbook to apply business analysis techniques, select requirements training, and explore job roles ... career (Business Analyst Career Guide)