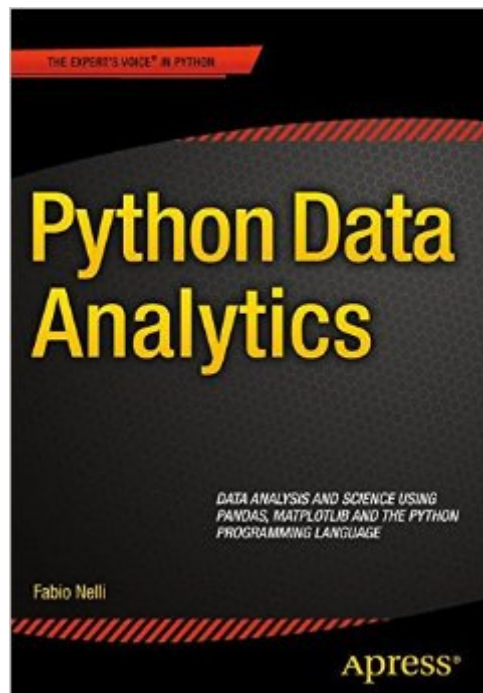# Python Data Analytics: Data Analysis And Science Using Pandas, Matplotlib And The Python Programming Language

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

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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".

Python Data Analytics: Data Analysis and Science using pandas, matplotlib and the Python Programming Language Python: PYTHON CRASH COURSE - Beginner's Course To Learn The Basics Of Python Programming In 24 Hours!: (Python, Python Programming, Python for Dummies, Python for Beginners, python crash course) Programming #45: Python Programming Professional Made Easy & Android Programming In a Day! (Python Programming, Python Language, Python for beginners, ... Programming Languages, Android Programming) Python: Learn Python In A DAY! - The Ultimate Crash Course to Learning the Basics of Python In No Time (Python, Python Course, Python Development, Python Books, Python for Beginners) Python: Learn Python FAST - The Ultimate Crash Course to Learning the Basics of the Python Programming Language In No Time (Python, Python Programming, ... (Learn Coding Fast with Hands-On Project 7) Data Analytics: Practical Data Analysis and Statistical Guide to Transform and Evolve Any Business Leveraging the Power of Data Analytics, Data Science, ... (Hacking Freedom and Data Driven Book 2) PYTHON: Python in 8 Hours, For Beginners, Learn Python Fast! A Smart Way to Learn Python, Plain & Simple, Learn Python Programming Language in Easy Steps, A Beginner's Guide, Start Coding Today! Python for Data Analysis: Data Wrangling with Pandas, NumPy, and IPython Big Data, MapReduce, Hadoop, and Spark with Python: Master Big Data Analytics and Data Wrangling with MapReduce Fundamentals using Hadoop, Spark, and Python Programming Raspberry Pi 3: Getting Started With Python (Programming Raspberry Pi 3, Raspberry Pi 3 User Guide, Python Programming, Raspberry Pi 3 with Python Programming) Programming #8:C Programming Success in a Day & Android Programming In a Day! (C Programming, C++programming, C++ programming language, Android , Android Programming, Android Games) Programming #57: C++ Programming Professional Made Easy & Android Programming in a Day (C++ Programming, C++ Language, C++for beginners, C++, Programming ... Programming, Android, C, C Programming) Python: Learn Web Scraping with Python In A DAY! - The Ultimate Crash Course to Learning the Basics of Web Scraping with Python In No Time (Web Scraping ... Python Books, Python for Beginners) Data Just Right: Introduction to Large-Scale Data & Analytics (Addison-Wesley Data and Analytics) Programming: Computer Programming for Beginners: Learn the Basics of Java, SQL & C++ - 3. Edition (Coding, C Programming, Java Programming, SQL Programming, JavaScript, Python, PHP) Swift and Python Programming Guide: Programming Language For Beginners: Learn in a Day! Box Set Collection (Swift, Python, JAVA, C++. PHP) C#: Programming Success in a Day: Beginners

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