
Learning Pandas Python Data Discovery And Analysis Made Easy

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Platform
Explore all the
tools and
templates
needed for
data scientists
to drive
success in

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| <p>their biotechnology careers with this comprehensive guide Key Features Learn the applications of machine learning in biotechnology and life science sectors Discover exciting real- world applications of deep learning and natural language processing Understand the general process of deploying models to cloud platforms such as AWS and GCP Book</p> | <p>Description The booming fields of biotechnology and life sciences have seen drastic changes over the last few years. With competition growing in every corner, companies around the globe are looking to data-driven methods such as machine learning to optimize processes and reduce costs. This book helps lab scientists, engineers, and managers to develop a data scientist's</p> | <p>mindset by taking a hands-on approach to learning about the applications of machine learning to increase productivity and efficiency in no time. You'll start with a crash course in Python, SQL, and data science to develop and tune sophisticated models from scratch to automate processes and make predictions in the biotechnology and life sciences</p> |
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domain. As you advance, the book covers a number of advanced techniques in machine learning, deep learning, and natural language processing using real-world data. By the end of this machine learning book, you'll be able to build and deploy your own machine learning models to automate processes and make predictions using AWS and GCP. What you will learn Get

started with Python programming and Structured Query Language (SQL) Develop a machine learning predictive model from scratch using Python Fine-tune deep learning models to optimize their performance for various tasks Find out how to deploy, evaluate, and monitor a model in the cloud Understand how to apply advanced techniques to real-world data Discover

how to use key deep learning methods such as LSTMs and transformers Who this book is for This book is for data scientists and scientific professionals looking to transcend to the biotechnology domain. Scientific professionals who are already established within the pharmaceutical and biotechnology sectors will find this book useful. A basic understanding of Python programming

and beginner-level background in data science conjunction is needed to get the most out of this book. *Creating actionable data from raw sources* Packt Publishing Ltd Machine learning explores the study and construction of algorithms that can learn from and make predictions on data. This book will act as an entry point for anyone who wants to make a career in Machine Learning. It

covers algorithms like Linear regression, Logistic Regression, SVM, Naïve Bayes, K-Means, Random Forest, and Feature engineering. *Python for Data Science For Dummies* "O'Reilly Media, Inc." Over 95 hands-on recipes to leverage the power of pandas for efficient scientific computation and data analysis About This Book Use the power of pandas to

solve most complex scientific computing problems with ease Leverage fast, robust data structures in pandas to gain useful insights from your data Practical, easy to implement recipes for quick solutions to common problems in data using pandas Who This Book Is For This book is for data scientists, analysts and Python developers who wish to explore data analysis and

scientific computing in a practical, hands-on manner. The recipes included in this book are suitable for both novice and advanced users, and contain helpful tips, tricks and caveats wherever necessary. Some understanding of pandas will be helpful, but not mandatory. What You Will Learn Master the fundamentals of pandas to quickly begin exploring any dataset Isolate

any subset of data by properly selecting and querying the data Split data into independent groups before applying aggregations and transformations to each group Restructure data into tidy form to make data analysis and visualization easier Prepare real-world messy datasets for machine learning Combine and merge data from different sources through

pandas SQL-like operations Utilize pandas unparalleled time series functionality Create beautiful and insightful visualizations through pandas direct hooks to Matplotlib and Seaborn In Detail This book will provide you with unique, idiomatic, and fun recipes for both fundamental and advanced data manipulation tasks with pandas. Some recipes focus on achieving a deeper understanding

of basic principles, or comparing and contrasting two similar operations. Other recipes will dive deep into a particular dataset, uncovering new and unexpected insights along the way. The pandas library is massive, and it's common for frequent users to be unaware of many of its more impressive features. The official pandas documentation, while thorough, does not

contain many useful examples of how to piece together multiple commands like one would do during an actual analysis. This book guides you, as if you were looking over the shoulder of an expert, through practical situations that you are highly likely to encounter. Many advanced recipes combine several different features across the pandas library

to generate results. Style and approach
The author relies on his vast experience teaching pandas in a professional setting to deliver very detailed explanations for each line of code in all of the recipes. All code and dataset explanations exist in Jupyter Notebooks, an excellent interface for exploring data.
Introducing Data Science
John Wiley & Sons
Pandas has

rapidly become one of Python's most popular data analysis libraries. With pandas you can efficiently sort, analyze, filter and munge almost any type of data. Pandas in Action shows you how to master this versatile tool and take the next steps in your data science career. Pandas has rapidly become one of Python's most popular data analysis libraries. With pandas you can efficiently sort, analyze,

filter and munge almost any type of data. Pandas in Action shows you how to master this versatile tool and take the next steps in your data science career. Pandas in Action makes it easy to dive into Python-based data analysis. You'll learn to use pandas to automate repetitive spreadsheet functionality and derive insight from data by sorting columns, filtering data subsets, and

creating multi-levelled indices. Each chapter is a self-contained tutorial, letting you dip in when you need to troubleshoot tricky problems. Best of all, you won't be learning from sterile or randomly created data. You'll start with a variety of datasets that are big, small, incomplete, broken, and messy and learn how to clean and format them for proper analysis. Purchase of

the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. *Hands-On Data Analysis with Pandas* Packt Publishing Ltd Filled with practical, step-by-step instructions and clear explanations for the most important and useful tasks. A step-by-step guide that helps you to index, search, and retrieve unstructured data with the help of Lucene.NET. Instant Lucene.NET

How-to is essential for developers new to Lucene and Lucene.NET who are looking to get an immediate foundational understanding of how to use the library in their application. It's assumed you have programming experience in C# already, but not that you have experience with search techniques such as information retrieval theory (although there will be a little of that

explained). The recipes in the book generate or come with sample documents, but feel free to use your own! *Practical Machine Learning with Python* Packt Publishing Ltd Knowing how to work with data to extract insights generates significant value. This book will help you to develop data analysis skills using a hands-on approach and real-world data. You'll get up to

speed with pandas 1.x in no time and build some software engineering skills in the process, vastly expanding your data science toolbox. [A Python Approach to Concepts, Techniques and Applications](#) Packt Publishing Ltd Get to grips with pandas - a fast, versatile, and high-performance Python library for data discovery, data manipulation,

data preparation, and handling data for analytical tasks Key Features: Perform efficient data analysis and manipulation tasks using pandas 1.x Apply pandas to different real-world domains with the help of step-by-step examples Become well-versed in using pandas as an effective data exploration tool Book Description: Data analysis has become an essential skill in a

variety of domains where knowing how to work with data and extract insights can generate significant value. Hands-On Data Analysis with Pandas will show you how to analyze your data, get started with machine learning, and work effectively with the Python libraries often used for data science, such as pandas, NumPy, matplotlib, seaborn, and scikit-learn.

Using real-world datasets, you will learn how to use the pandas library to perform data wrangling to reshape, clean, and aggregate your data. Then, you will learn how to conduct exploratory data analysis by calculating summary statistics and visualizing the data to find patterns. In the concluding chapters, you will explore some applications of anomaly detection, regression,

clustering, and classification using scikit-learn to make predictions based on past data. This updated edition will equip you with the skills you need to use pandas 1.x to efficiently perform various data manipulation tasks, reliably reproduce analyses, and visualize your data for effective decision-making-valuable knowledge that can be applied across multiple domains.

What You Will Learn:
 Understand how data analysts and scientists gather and analyze data
 Perform data analysis and data wrangling using Python
 Combine, group, and aggregate data from multiple sources
 Create data visualizations with pandas, matplotlib, and seaborn
 Apply machine learning algorithms to identify patterns and make predictions
 Use Python

data science libraries to analyze real-world datasets. Solve common data representation and analysis problems using pandas. Build Python scripts, modules, and packages for reusable analysis code. Who this book is for: This book is for data science beginners, data analysts, and Python developers who want to explore each stage of data analysis and scientific computing using a wide range of

datasets. You'll also find this book useful if you are a data scientist looking to implement pandas in your machine learning workflow. Working knowledge of the Python programming language will assist with understanding the key concepts covered in this book; however, a Python crash-course tutorial is provided in the code bundle for anyone who needs a refresher.

Learning Spark Packt Publishing Ltd
Learning pandas Packt Publishing Ltd
[A Python data science handbook for data collection, wrangling, analysis, and visualization, 2nd Edition](#) Packt Publishing Ltd
Become the master player of data exploration by creating reproducible data processing pipelines, visualizations, and prediction models for your applications.
Key Features

Get up and running with the Jupyter ecosystem and some example datasets. Learn about key machine learning concepts such as SVM, KNN classifiers, and Random Forests. Discover how you can use web scraping to gather and parse your own bespoke datasets. *Book Description: Getting started with data science doesn't have to be an uphill battle. Applied Data Science with Python and Jupyter is*

a step-by-step guide ideal for beginners who know a little Python and are looking for a quick, fast-paced introduction to these concepts. In this book, you'll learn every aspect of the standard data workflow process, including collecting, cleaning, investigating, visualizing, and modeling data. You'll start with the basics of Jupyter, which will be the backbone of the book. After

familiarizing ourselves with its standard features, you'll look at an example of it in practice with our first analysis. In the next lesson, you dive right into predictive analytics, where multiple classification algorithms are implemented. Finally, the book ends by looking at data collection techniques. You'll see how web data can be acquired with scraping techniques and via APIs, and then briefly explore

interactive visualizations. What you will learn Get up and running with the Jupyter ecosystem Identify potential areas of investigation and perform exploratory data analysis Plan a machine learning classification strategy and train classification models Use validation curves and dimensionality reduction to tune and enhance your models Scrape tabular data from web

pages and transform it into Pandas DataFrames Create interactive, web-friendly visualizations to clearly communicate your findings Who this book is for Applied Data Science with Python and Jupyter is ideal for professionals with a variety of job descriptions across a large range of industries, given the rising popularity and accessibility of data science. You'll need some prior experience

with Python, with any prior work with libraries such as Pandas, Matplotlib, and Pandas providing you a useful head start.

Applied Data Science with Python and Jupyter Packt Publishing Ltd From news and speeches to informal chatter on social media, natural language is one of the richest and most underutilized sources of data. Not only does it come in a constant stream, always

changing and adapting in context; it also contains information that is not conveyed by traditional data sources. The key to unlocking natural language is through the creative application of text analytics. This practical book presents a data scientist's approach to building language-aware products with applied machine learning. You'll learn robust, repeatable,

and scalable techniques for text analysis with Python, including contextual and linguistic feature engineering, vectorization, classification, topic modeling, entity resolution, graph analysis, and visual steering. By the end of the book, you'll be equipped with practical methods to solve any number of complex real-world problems. Preprocess and vectorize text into high-

dimensional feature representations Perform document classification and topic modeling Steer the model selection process with visual diagnostics Extract key phrases, named entities, and graph structures to reason about data in text Build a dialog framework to enable chatbots and language-driven interaction Use Spark to scale processing

power and neural networks to scale model complexity
A Python Data Science Handbook for Data Collection, Wrangling, Analysis, and Visualization
Learning pandas Get to grips with pandas—a versatile and high-performance Python library for data manipulation, analysis, and discovery
About This Book Get comfortable using pandas and Python as

an effective data exploration and analysis tool Explore pandas through a framework of data analysis, with an explanation of how pandas is well suited for the various stages in a data analysis process A comprehensive guide to pandas with many of clear and practical examples to help you get up and using pandas Who This Book Is For This book is ideal for data scientists, data analysts,

Python programmers who want to plunge into data analysis using pandas, and anyone with a curiosity about analyzing data. Some knowledge of statistics and programming will be helpful to get the most out of this book but not strictly required. Prior exposure to pandas is also not required. What You Will Learn Understand how data analysts and scientists think about of the processes

of gathering and understanding data. Learn how pandas can be used to support the end-to-end process of data analysis. Use pandas Series and DataFrame objects to represent single and multivariate data. Slicing and dicing data with pandas, as well as combining, grouping, and aggregating data from multiple sources. How to access data from external sources such as files,

databases, and web services. Represent and manipulate time-series data and the many of the intricacies involved with this type of data. How to visualize statistical information. How to use pandas to solve several common data representation and analysis problems within finance. In Detail You will learn how to use pandas to perform data analysis in Python. You will start with an overview of data analysis

and iteratively progress from modeling data, to accessing data from remote sources, performing numeric and statistical analysis, through indexing and performing aggregate analysis, and finally to visualizing statistical data and applying pandas to finance. With the knowledge you gain from this book, you will quickly learn pandas and how it can empower you in the exciting world of data

manipulation, analysis and science. Style and approach Step-by-step instruction on using pandas within an end-to-end framework of performing data analysis Practical demonstration of using Python and pandas using interactive and incremental examples [Python Data Science Essentials](#) O'Reilly Media For many researchers, Python is a first-class tool mainly because of its libraries for

storing, manipulating, and gaining insight from data. Several resources exist for individual pieces of this data science stack, but only with the Python Data Science Handbook do you get them all—IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools. Working scientists and data crunchers familiar with reading and writing Python code will find this

comprehensive desk reference ideal for tackling day-to-day issues: manipulating, transforming, and cleaning data; visualizing different types of data; and using data to build statistical or machine learning models. Quite simply, this is the must-have reference for scientific computing in Python. With this handbook, you'll learn how to use: IPython and Jupyter: provide computational

environments for data scientists using Python NumPy: includes the ndarray for efficient storage and manipulation of dense data arrays in Python Pandas: features the DataFrame for efficient storage and manipulation of labeled/columnar data in Python Matplotlib: includes capabilities for a flexible range of data visualizations in Python Scikit-Learn: for efficient

and clean Python implementations of the most important and established machine learning algorithms *Machine Learning and Data Science Blueprints for Finance* Springer Perform advanced data manipulation tasks using pandas and become an expert data analyst. Key Features Manipulate and analyze your data expertly using the power of pandas Work with missing

data and time series data and become a true pandas expert Includes expert tips and techniques on making your data analysis tasks easier Book Description pandas is a popular Python library used by data scientists and analysts worldwide to manipulate and analyze their data. This book presents useful data manipulation techniques in pandas to perform complex data

analysis in various domains. An update to our highly successful previous edition with new features, examples, updated code, and more, this book is an in-depth guide to get the most out of pandas for data analysis. Designed for both intermediate users as well as seasoned practitioners, you will learn advanced data manipulation techniques, such as multi-indexing, modifying

data structures, and sampling your data, which allow for powerful analysis and help you gain accurate insights from it. With the help of this book, you will apply pandas to different domains, such as Bayesian statistics, predictive analytics, and time series analysis using an example-based approach. And not just that; you will also learn how to prepare powerful, interactive business

reports in pandas using the Jupyter notebook. By the end of this book, you will learn how to perform efficient data analysis using pandas on complex data, and become an expert data analyst or data scientist in the process. What you will learn Speed up your data analysis by importing data into pandas Keep relevant data points by selecting subsets of your data Create a high-quality dataset by cleaning data

and fixing missing values
 Compute actionable analytics with grouping and aggregation in pandas
 Master time series data analysis in pandas
 Make powerful reports in pandas using Jupyter notebooks
 Who this book is for
 This book is for data scientists, analysts and Python developers who wish to explore advanced data analysis and scientific computing techniques using pandas.

Some fundamental understanding of Python programming and familiarity with the basic data analysis concepts is all you need to get started with this book.
Machine Learning Algorithms
 Packt Publishing Ltd
 Generate effective results in a variety of visually appealing charts using the plotting packages in Python
 About This Book
 Explore various tools and their strengths

while building meaningful representations that can make it easier to understand data
 Packed with computational methods and algorithms in diverse fields of science
 Written in an easy-to-follow categorical style, this book discusses some niche techniques that will make your code easier to work with and reuse
 Who This Book Is For
 If you are a Python developer who performs data visualization and wants to

develop existing knowledge about Python to build analytical results and produce some amazing visual display, then this book is for you. A basic knowledge level and understanding of Python libraries is assumed. What You Will Learn Gather, cleanse, access, and map data to a visual framework Recognize which visualization method is applicable and learn best

practices for data visualization Get acquainted with reader-driven narratives and author-driven narratives and the principles of perception Understand why Python is an effective tool to be used for numerical computation much like MATLAB, and explore some interesting data structures that come with it Explore with various visualization choices how Python can be very useful in

computation in the field of finance and statistics Get to know why Python is the second choice after Java, and is used frequently in the field of machine learning Compare Python with other visualization approaches using Julia and a JavaScript-based framework such as D3.js Discover how Python can be used in conjunction with NoSQL such as Hive to produce results efficiently in a

distributed environment
 In Detail
 Python has a handful of open source libraries for numerical computations involving optimization, linear algebra, integration, interpolation, and other special functions using array objects, machine learning, data mining, and plotting. Pandas have a productive environment for data analysis. These libraries have a specific purpose and

play an important role in the research into diverse domains including economics, finance, biological sciences, social science, health care, and many more. The variety of tools and approaches available within Python community is stunning, and can bolster and enhance visual story experiences. This book offers practical guidance to help you on the journey to

effective data visualization. Commencing with a chapter on the data framework, which explains the transformation of data into information and eventually knowledge, this book subsequently covers the complete visualization process using the most popular Python libraries with working examples. You will learn the usage of Numpy, Scipy, IPython, Matplotlib, Pandas, Patsy, and Scikit-

Learn with a focus on generating results that can be visualized in many different ways. Further chapters are aimed at not only showing advanced techniques such as interactive plotting; numerical, graphical linear, and non-linear regression; clustering and classification, but also in helping you understand the aesthetics and best practices of data visualization. The book

concludes with interesting examples such as social networks, directed graph examples in real-life, data structures appropriate for these problems, and network analysis. By the end of this book, you will be able to effectively solve a broad set of data analysis problems. Style and approach The approach of this book is not step by step, but rather categorical. The categories

are based on fields such as bioinformatics , statistical and machine learning, financial computation, and linear algebra. This approach is beneficial for the community in many different fields of work and also helps you learn how one approach can make sense across many fields

Hands-On Data Preprocessing in Python
Packt Publishing Ltd
Understand data analysis pipelines using machine

learning algorithms and techniques with this practical guideKey Features* Prepare and clean your data to use it for exploratory analysis, data manipulation, and data wrangling* Discover supervised, unsupervised, probabilistic, and Bayesian machine learning methods* Get to grips with graph processing and sentiment analysisBook DescriptionData analysis enables you to generate value from small and big data by discovering new patterns and trends, and Python is one of the most popular tools for analyzing a wide variety of data. With this book, you'll get up and running using Python for data analysis by exploring the different phases and methodologies used in data analysis and learning how to use modern libraries from the Python ecosystem to create efficient data pipelines.Starting with the essential statistical and data analysis fundamentals using Python, you'll perform complex data analysis and modeling, data manipulation, data cleaning, and data visualization using easy-to-follow examples. You'll then understand how to conduct time series analysis and signal processing using ARMA models. As you advance, you'll get to grips with

smart processing and data analytics using machine learning algorithms such as regression, classification, Principal Component Analysis (PCA), and clustering. In the concluding chapters, you'll work on real-world examples to analyze textual and image data using natural language processing (NLP) and image analytics techniques, respectively. Finally, the

book will demonstrate parallel computing using Dask. By the end of this data analysis book, you'll be equipped with the skills you need to prepare data for analysis and create meaningful data visualizations for forecasting values from data. What you will learn* Explore data science and its various process models* Perform data manipulation using NumPy and pandas for aggregating,

cleaning, and handling missing values* Create interactive visualizations using Matplotlib, Seaborn, and Bokeh* Retrieve, process, and store data in a wide range of formats* Understand data preprocessing and feature engineering using pandas and scikit-learn* Perform time series analysis and signal processing using sunspot cycle data* Analyze textual data and image

data to perform advanced analysis* Get up to speed with parallel computing using DaskWho this book is forThis book is for data analysts, business analysts, statisticians, and data scientists looking to learn how to use Python for data analysis. Students and academic faculties will also find this book useful for learning and teaching Python data analysis using a hands-on approach. A

basic understanding of math and working knowledge of the Python programming language will help you get started with this book. *Hands-On Data Analysis with Pandas* Apress Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of this hands-on guide is packed with practical case

studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's ideal for analysts new to Python and for Python

programmers new to data science and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing. Learn basic and advanced features in NumPy (Numerical Python) Get started with data analysis tools in the pandas library Use flexible tools to load, clean, transform, merge, and reshape data

Create informative visualizations with matplotlib Apply the pandas groupby facility to slice, dice, and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real-world data analysis problems with thorough, detailed examples Instant Lucene.NET Packt Publishing Ltd Build real-world Artificial

Intelligence applications with Python to intelligently interact with the world around you About This Book Step into the amazing world of intelligent apps using this comprehensive guide Enter the world of Artificial Intelligence, explore it, and create your own applications Work through simple yet insightful examples that will get you up and running with Artificial Intelligence in no time Who

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| <p>This Book Is For This book is for Python developers who want to build real-world Artificial Intelligence applications. This book is friendly to Python beginners, but being familiar with Python would be useful to play around with the code. It will also be useful for experienced Python programmers who are looking to use Artificial Intelligence techniques in their existing technology stacks. What</p> | <p>You Will Learn Realize different classification and regression techniques Understand the concept of clustering and how to use it to automatically segment data See how to build an intelligent recommender system Understand logic programming and how to use it Build automatic speech recognition systems Understand the basics of heuristic search and</p> | <p>genetic programming Develop games using Artificial Intelligence Learn how reinforcement learning works Discover how to build intelligent applications centered on images, text, and time series data See how to use deep learning algorithms and build applications based on it In Detail Artificial Intelligence is becoming increasingly relevant in the modern world where everything is</p> |
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driven by technology and data. It is used extensively across many fields such as search engines, image recognition, robotics, finance, and so on. We will explore various real-world scenarios in this book and you'll learn about various algorithms that can be used to build Artificial Intelligence applications. During the course of this book, you will find out how to make

informed decisions about what algorithms to use in a given context. Starting from the basics of Artificial Intelligence, you will learn how to develop various building blocks using different data mining techniques. You will see how to implement different algorithms to get the best possible results, and will understand how to apply them to real-world

scenarios. If you want to add an intelligence layer to any application that's based on images, text, stock market, or some other form of data, this exciting book on Artificial Intelligence will definitely be your guide! Style and approach This highly practical book will show you how to implement Artificial Intelligence. The book provides multiple examples enabling you

to create smart applications to meet the needs of your organization. In every chapter, we explain an algorithm, implement it, and then build a smart application. [Learning Data Mining with Python](#) CRC Press Machine learning and analytics have been widely utilized across the healthcare sector of late. This book will bridge the gap between practicing doctors and you as a data scientist. You

will learn how to work with healthcare data and gain better insight from this data to improve healthcare outcomes. **Hands-On Data Analysis with Pandas - Second Edition** Packt Publishing Ltd Python is one of the top 3 tools that Data Scientists use. One of the tools in their arsenal is the Pandas library. This tool is popular because it gives you so much functionality out of the box.

In addition, you can use all the power of Python to make the hard stuff easy! Learning the Pandas Library is designed to bring developers and aspiring data scientists who are anxious to learn Pandas up to speed quickly. It starts with the fundamentals of the data structures. Then, it covers the essential functionality. It includes many examples, graphics, code samples, and plots from real world

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| examples. The | from clear | people who |
| Content | writing and | use pandas |
| Covers: | simple | regularly. - |
| Installation | examples. The | Tom Z. |
| Data | pandas | <i>Learn how to</i> |
| Structures | documentatio | <i>effectively</i> |
| Series CRUD | n itself is large | <i>prepare data</i> |
| Series | and | <i>for successful</i> |
| Indexing | sometimes | <i>data analytics</i> |
| Series | assumes too | Addison- |
| Methods | much | Wesley |
| Series Plotting | knowledge, in | Professional |
| Series | my opinion. | This |
| Examples | Learning the | accessible and |
| DataFrame | Pandas Library | classroom- |
| Methods | bridges this | tested |
| DataFrame | gap for new | textbook/refer |
| Statistics | users and | ence presents |
| Grouping, | even for those | an |
| Pivoting, and | with some | introduction to |
| Reshaping | pandas | the |
| Dealing with | experience | fundamentals |
| Missing Data | such as me. - | of the |
| Joining | Garry C. I | emerging and |
| DataFrames | have finished | interdisciplinar |
| DataFrame | reading | y field of data |
| Examples | Learning the | science. The |
| Preliminary | Pandas Library | coverage |
| Reviews This | and I liked it... | spans key |
| is an excellent | very useful | concepts |
| introduction | and helpful | adopted from |
| benefitting | tips even for | statistics and |

machine learning, useful techniques for graph analysis and parallel programming, and the practical application of data science for such tasks as building recommender systems or performing sentiment analysis. Topics and features: provides numerous

practical case studies using real-world data throughout the book; supports understanding through hands-on experience of solving data science problems using Python; describes techniques and tools for statistical analysis, machine

learning, graph analysis, and parallel programming; reviews a range of applications of data science, including recommender systems and sentiment analysis of text data; provides supplementary code resources and data at an associated website.