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Python for Data Analysis Wes McKinney, 2017-09-25 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

Python for Data Analysis Wes McKinney, 2022-08-12 Get the definitive handbook for manipulating processing cleaning and crunching datasets in Python Updated for Python 3.10 and pandas 1.4 the third 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 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 Jupyter notebook and IPython shell for exploratory computing Learn basic and advanced features in NumPy 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

[Python for Data Analysis](#) Wes McKinney, 2012-10-08 Serves as an introduction to Python for data intensive applications

Pandas Cookbook Theodore Petrou, 2017-10-23 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

[Python Data Science Handbook](#) Jake VanderPlas, 2016-11-21 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

[Pandas for Everyone](#) Daniel Y. Chen, 2017-12-15 The Hands On Example Rich Introduction to Pandas Data Analysis in Python Today analysts must manage data characterized by extraordinary variety velocity and volume Using the open source Pandas library you can use Python to rapidly automate and perform virtually any data analysis task no matter how large or complex Pandas can help you ensure the veracity of your data

visualize it for effective decision making and reliably reproduce analyses across multiple datasets Pandas for Everyone brings together practical knowledge and insight for solving real problems with Pandas even if you re new to Python data analysis Daniel Y Chen introduces key concepts through simple but practical examples incrementally building on them to solve more difficult real world problems Chen gives you a jumpstart on using Pandas with a realistic dataset and covers combining datasets handling missing data and structuring datasets for easier analysis and visualization He demonstrates powerful data cleaning techniques from basic string manipulation to applying functions simultaneously across dataframes Once your data is ready Chen guides you through fitting models for prediction clustering inference and exploration He provides tips on performance and scalability and introduces you to the wider Python data analysis ecosystem Work with DataFrames and Series and import or export data Create plots with matplotlib seaborn and pandas Combine datasets and handle missing data Reshape tidy and clean datasets so they re easier to work with Convert data types and manipulate text strings Apply functions to scale data manipulations Aggregate transform and filter large datasets with groupby Leverage Pandas advanced date and time capabilities Fit linear models using statsmodels and scikit learn libraries Use generalized linear modeling to fit models with different response variables Compare multiple models to select the best Regularize to overcome overfitting and improve performance Use clustering in unsupervised machine learning

Python Data Analytics Fabio Nelli,2018-09-27 Explore the latest Python tools and techniques to help you tackle the world of data acquisition and analysis You ll review scientific computing with NumPy visualization with matplotlib and machine learning with scikit learn This revision is fully updated with new content on social media data analysis image analysis with OpenCV and deep learning libraries Each chapter includes multiple examples demonstrating how to work with each library At its heart lies the coverage of pandas for high performance easy to use data structures and tools for data manipulation Author Fabio Nelli expertly demonstrates using Python for data processing management and information retrieval Later chapters apply what you ve learned to handwriting recognition and extending graphical capabilities with the JavaScript D3 library Whether you are dealing with sales data investment data medical data web page usage or other data sets *Python Data Analytics Second Edition* is an invaluable reference with its examples of storing accessing and analyzing data What You ll Learn Understand the core concepts of data analysis and the Python ecosystem Go in depth with pandas for reading writing and processing data Use tools and techniques for data visualization and image analysis Examine popular deep learning libraries Keras Theano TensorFlow and PyTorch Who This Book Is For Experienced Python developers who need to learn about Pythonic tools for data analysis

Python for Data Analysis Wes McKinney,2012 Serves as an introduction to Python for data intensive applications **Python Data Analytics** Fabio Nelli,2015-08-25 *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 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

Hands-On Data Analysis with Pandas Stefanie Molin,2021-04-29 Get to grips with pandas by working with real datasets and master 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 Make the most of pandas as an effective data exploration tool Book DescriptionExtracting valuable business insights is no longer a nice to have but an essential skill for anyone who handles data in their enterprise Hands On Data Analysis with Pandas is here to help beginners and those who are migrating their skills into data science get up to speed in no time This book 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 Data scientists looking to implement pandas in their machine learning workflow will also find plenty of

valuable know how as they progress You ll find it easier to follow along with this book if you have a working knowledge of the Python programming language but a Python crash course tutorial is provided in the code bundle for anyone who needs a refresher

Foundations for Analytics with Python Clinton W. Brownley,2016-08-16 If you re like many of Excel s 750 million users you want to do more with your data like repeating similar analyses over hundreds of files or combining data in many files for analysis at one time This practical guide shows ambitious non programmers how to automate and scale the processing and analysis of data in different formats by using Python After author Clinton Brownley takes you through Python basics you ll be able to write simple scripts for processing data in spreadsheets as well as databases You ll also learn how to use several Python modules for parsing files grouping data and producing statistics No programming experience is necessary Create and run your own Python scripts by learning basic syntax Use Python s csv module to read and parse CSV files Read multiple Excel worksheets and workbooks with the xlrd module Perform database operations in MySQL or with the mysqlclient module Create Python applications to find specific records group data and parse text files Build statistical graphs and plots with matplotlib pandas ggplot and seaborn Produce summary statistics and estimate regression and classification models Schedule your scripts to run automatically in both Windows and Mac environments

[Data Wrangling with Python](#) Jacqueline Kazil,Katharine Jarmul,2016-02-04 How do you take your data analysis skills beyond Excel to the next level By learning just enough Python to get stuff done This hands on guide shows non programmers like you how to process information that s initially too messy or difficult to access You don t need to know a thing about the Python programming language to get started Through various step by step exercises you ll learn how to acquire clean analyze and present data efficiently You ll also discover how to automate your data process schedule file editing and clean up tasks process larger datasets and create compelling stories with data you obtain Quickly learn basic Python syntax data types and language concepts Work with both machine readable and human consumable data Scrape websites and APIs to find a bounty of useful information Clean and format data to eliminate duplicates and errors in your datasets Learn when to standardize data and when to test and script data cleanup Explore and analyze your datasets with new Python libraries and techniques Use Python solutions to automate your entire data wrangling process

Python for Excel Felix Zumstein,2021-03-04 While Excel remains ubiquitous in the business world recent Microsoft feedback forums are full of requests to include Python as an Excel scripting language In fact it s the top feature requested What makes this combination so compelling In this hands on guide Felix Zumstein creator of xlwings a popular open source package for automating Excel with Python shows experienced Excel users how to integrate these two worlds efficiently Excel has added quite a few new capabilities over the past couple of years but its automation language VBA stopped evolving a long time ago Many Excel power users have already adopted Python for daily automation tasks This guide gets you started Use Python without extensive programming knowledge Get started with modern tools including Jupyter notebooks and Visual Studio code Use pandas to acquire clean and analyze data and replace

typical Excel calculations Automate tedious tasks like consolidation of Excel workbooks and production of Excel reports Use xlwings to build interactive Excel tools that use Python as a calculation engine Connect Excel to databases and CSV files and fetch data from the internet using Python code Use Python as a single tool to replace VBA Power Query and Power Pivot

Data Science Using Python and R Chantal D. Larose, Daniel T. Larose, 2019-04-09 Learn data science by doing data science Data Science Using Python and R will get you plugged into the world's two most widespread open source platforms for data science Python and R Data science is hot Bloomberg called data scientist the hottest job in America Python and R are the top two open source data science tools in the world In Data Science Using Python and R you will learn step by step how to produce hands on solutions to real world business problems using state of the art techniques Data Science Using Python and R is written for the general reader with no previous analytics or programming experience An entire chapter is dedicated to learning the basics of Python and R Then each chapter presents step by step instructions and walkthroughs for solving data science problems using Python and R Those with analytics experience will appreciate having a one stop shop for learning how to do data science using Python and R Topics covered include data preparation exploratory data analysis preparing to model the data decision trees model evaluation misclassification costs naive Bayes classification neural networks clustering regression modeling dimension reduction and association rules mining Further exciting new topics such as random forests and general linear models are also included The book emphasizes data driven error costs to enhance profitability which avoids the common pitfalls that may cost a company millions of dollars Data Science Using Python and R provides exercises at the end of every chapter totaling over 500 exercises in the book Readers will therefore have plenty of opportunity to test their newfound data science skills and expertise In the Hands on Analysis exercises readers are challenged to solve interesting business problems using real world data sets *Become a Python Data Analyst* Alvaro Fuentes, 2018-08-31 Enhance your data analysis and predictive modeling skills using popular Python tools Key Features Cover all fundamental libraries for operation and manipulation of Python for data analysis Implement real world datasets to perform predictive analytics with Python Access modern data analysis techniques and detailed code with scikit learn and SciPy Book Description Python is one of the most common and popular languages preferred by leading data analysts and statisticians for working with massive datasets and complex data visualizations Become a Python Data Analyst introduces Python's most essential tools and libraries necessary to work with the data analysis process right from preparing data to performing simple statistical analyses and creating meaningful data visualizations In this book we will cover Python libraries such as NumPy pandas matplotlib seaborn SciPy and scikit learn and apply them in practical data analysis and statistics examples As you make your way through the chapters you will learn to efficiently use the Jupyter Notebook to operate and manipulate data using NumPy and the pandas library In the concluding chapters you will gain experience in building simple predictive models and carrying out statistical computation and analysis using rich Python tools and proven data analysis

techniques By the end of this book you will have hands on experience performing data analysis with Python What you will learn Explore important Python libraries and learn to install Anaconda distribution Understand the basics of NumPy Produce informative and useful visualizations for analyzing data Perform common statistical calculations Build predictive models and understand the principles of predictive analytics Who this book is for Become a Python Data Analyst is for entry level data analysts data engineers and BI professionals who want to make complete use of Python tools for performing efficient data analysis Prior knowledge of Python programming is necessary to understand the concepts covered in this book

Mastering Python for Data Science Samir Madhavan, 2015-08-31 Explore the world of data science through Python and learn how to make sense of data About This Book Master data science methods using Python and its libraries Create data visualizations and mine for patterns Advanced techniques for the four fundamentals of Data Science with Python data mining data analysis data visualization and machine learning Who This Book Is For If you are a Python developer who wants to master the world of data science then this book is for you Some knowledge of data science is assumed What You Will Learn Manage data and perform linear algebra in Python Derive inferences from the analysis by performing inferential statistics Solve data science problems in Python Create high end visualizations using Python Evaluate and apply the linear regression technique to estimate the relationships among variables Build recommendation engines with the various collaborative filtering algorithms Apply the ensemble methods to improve your predictions Work with big data technologies to handle data at scale In Detail Data science is a relatively new knowledge domain which is used by various organizations to make data driven decisions Data scientists have to wear various hats to work with data and to derive value from it The Python programming language beyond having conquered the scientific community in the last decade is now an indispensable tool for the data science practitioner and a must know tool for every aspiring data scientist Using Python will offer you a fast reliable cross platform and mature environment for data analysis machine learning and algorithmic problem solving This comprehensive guide helps you move beyond the hype and transcend the theory by providing you with a hands on advanced study of data science Beginning with the essentials of Python in data science you will learn to manage data and perform linear algebra in Python You will move on to deriving inferences from the analysis by performing inferential statistics and mining data to reveal hidden patterns and trends You will use the matplotlib library to create high end visualizations in Python and uncover the fundamentals of machine learning Next you will apply the linear regression technique and also learn to apply the logistic regression technique to your applications before creating recommendation engines with various collaborative filtering algorithms and improving your predictions by applying the ensemble methods Finally you will perform K means clustering along with an analysis of unstructured data with different text mining techniques and leveraging the power of Python in big data analytics Style and approach This book is an easy to follow comprehensive guide on data science using Python The topics covered in the book can all be used in real world scenarios *Data Science Projects with Python*

Stephen Klosterman, 2019-04-30 Gain hands on experience with industry standard data analysis and machine learning tools in Python Key Features Tackle data science problems by identifying the problem to be solved Illustrate patterns in data using appropriate visualizations Implement suitable machine learning algorithms to gain insights from data Book Description Data Science Projects with Python is designed to give you practical guidance on industry standard data analysis and machine learning tools by applying them to realistic data problems You will learn how to use pandas and Matplotlib to critically examine datasets with summary statistics and graphs and extract the insights you seek to derive You will build your knowledge as you prepare data using the scikit learn package and feed it to machine learning algorithms such as regularized logistic regression and random forest You ll discover how to tune algorithms to provide the most accurate predictions on new and unseen data As you progress you ll gain insights into the working and output of these algorithms building your understanding of both the predictive capabilities of the models and why they make these predictions By then end of this book you will have the necessary skills to confidently use machine learning algorithms to perform detailed data analysis and extract meaningful insights from unstructured data What you will learn Install the required packages to set up a data science coding environment Load data into a Jupyter notebook running Python Use Matplotlib to create data visualizations Fit machine learning models using scikit learn Use lasso and ridge regression to regularize your models Compare performance between models to find the best outcomes Use k fold cross validation to select model hyperparameters Who this book is for If you are a data analyst data scientist or business analyst who wants to get started using Python and machine learning techniques to analyze data and predict outcomes this book is for you Basic knowledge of Python and data analytics will help you get the most from this book Familiarity with mathematical concepts such as algebra and basic statistics will also be useful

Grokking Deep Learning Andrew W. Trask, 2019-01-23 Summary *Grokking Deep Learning* teaches you to build deep learning neural networks from scratch In his engaging style seasoned deep learning expert Andrew Trask shows you the science under the hood so you grok for yourself every detail of training neural networks Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Deep learning a branch of artificial intelligence teaches computers to learn by using neural networks technology inspired by the human brain Online text translation self driving cars personalized product recommendations and virtual voice assistants are just a few of the exciting modern advancements possible thanks to deep learning About the Book *Grokking Deep Learning* teaches you to build deep learning neural networks from scratch In his engaging style seasoned deep learning expert Andrew Trask shows you the science under the hood so you grok for yourself every detail of training neural networks Using only Python and its math supporting library NumPy you ll train your own neural networks to see and understand images translate text into different languages and even write like Shakespeare When you re done you ll be fully prepared to move on to mastering deep learning frameworks What s inside The science behind deep learning Building and training your own neural networks Privacy

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Data Science from Scratch Joel Grus,2015-04-14 Data science libraries frameworks modules and toolkits are great for doing data science but they re also a good way to dive into the discipline without actually understanding data science In this book you ll learn how many of the most fundamental data science tools and algorithms work by implementing them from scratch If you have an aptitude for mathematics and some programming skills author Joel Grus will help you get comfortable with the math and statistics at the core of data science and with hacking skills you need to get started as a data scientist Today s messy glut of data holds answers to questions no one s even thought to ask This book provides you with the know how to dig those answers out Get a crash course in Python Learn the basics of linear algebra statistics and probability and understand how and when they re used in data science Collect explore clean munge and manipulate data Dive into the fundamentals of machine learning Implement models such as k nearest Neighbors Naive Bayes linear and logistic regression decision trees neural networks and clustering Explore recommender systems natural language processing network analysis MapReduce and databases

Learning Python Mark Lutz,2013-06-12 Get a comprehensive in depth introduction to the core Python language with this hands on book Based on author Mark Lutz s popular training course this updated fifth edition will help you quickly write efficient high quality code with Python It s an ideal way to begin whether you re new to programming or a professional developer versed in other languages Complete with quizzes exercises and helpful illustrations this easy to follow self paced tutorial gets you started with both Python 2.7 and 3.3 the latest releases in the 3.X and 2.X lines plus all other releases in common use today You ll also learn some advanced language features that recently have become more common in Python code Explore Python s major built in object types such as numbers lists and dictionaries Create and process objects

with Python statements and learn Python's general syntax model Use functions to avoid code redundancy and package code for reuse Organize statements functions and other tools into larger components with modules Dive into classes Python's object oriented programming tool for structuring code Write large programs with Python's exception handling model and development tools Learn advanced Python tools including decorators descriptors metaclasses and Unicode processing

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