

Access Data Analysis Cookbook Cookbooks By Ken Bluttman 24 May 2007 Paperback

Python Data Analysis Cookbook
 Data Mining Cookbook
 Tableau Cookbook - Recipes for Data Visualization
 Data Analysis with Open Source Tools
 Statistical Methods for Food Science
 Microsoft Power BI Cookbook
 Pandas Cookbook
 R Data Analysis Cookbook, Second Edition
 Web Development Recipes
 Clojure Data Analysis Cookbook - Second Edition
 Tableau Prep Cookbook
 IPython Interactive Computing and Visualization Cookbook
 R Data Analysis Cookbook
 SQL Cookbook
 R Cookbook
 Azure Data Engineering Cookbook
 Pandas 1.x Cookbook
 Python for Data Analysis
 Practical Data Science Cookbook
 Practical Data Analysis Cookbook
 R Cookbook
 Python Data Cleaning Cookbook
 Advanced Data Analytics Using Python
 Python for Finance Cookbook
 R Graphics Cookbook
 R Data Analysis Cookbook
 R for Data Science Cookbook
 Data Analysis Using SQL and Excel
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 Julia Cookbook
 R Data Visualization Cookbook
 Teradata Cookbook
 Access Data Analysis Cookbook
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 Data Analysis Methods in Physical Oceanography
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BALL VANESSA

Python Data Analysis Cookbook Packt Publishing Ltd
 Over 70 practical recipes to analyze multi-dimensional data in
 SQL Server 2016 Analysis Services cubes About This Book
 Updated for SQL Server 2016, this book helps you take advantage
 of the new MDX commands and the new features introduced in
 SSAS Perform time-related, context-aware, and business related-
 calculations with ease to enrich your Business Intelligence
 solutions Collection of techniques to write flexible and high
 performing MDX queries in SSAS with carefully structured
 examples Who This Book Is For This book is for anyone who has
 been involved in working with multidimensional data. If you are a
 multidimensional cube developer, a multidimensional database
 administrator, or a report developer who writes MDX queries to
 access multidimensional cube, this book will help you. If you are a
 power cube user or an experienced business analyst, you will also
 find this book invaluable in your data analysis. This book is for you
 are interested in doing more data analysis so that the
 management can make timely and accurate business decisions.
 What You Will Learn Grasp the fundamental MDX concepts,
 features, and techniques Work with sets Work with Time
 dimension and create time-aware calculations Make analytical
 reports compact, concise, and efficient Navigate cubes Master
 MDX for reporting with Reporting Services (new) Perform business
 analytics Design efficient cubes and efficient MDX queries Create
 metadata-driven calculations (new) Capture MDX queries and
 many other techniques In Detail If you're often faced with MDX
 challenges, this is a book for you. It will teach you how to solve
 various real-world business requirements using MDX queries and
 calculations. Examples in the book introduce an idea or a problem
 and then guide you through the process of implementing the
 solution in a step-by-step manner, inform you about the best
 practices and offer a deep knowledge in terms of how the solution
 works. Recipes are organized by chapters, each covering a single
 topic. They start slowly and logically progress to more advanced
 techniques. In case of complexity, things are broken down.
 Instead of one, there are series of recipes built one on top of
 another. This way you are able to see intermediate results and
 debug potential errors faster. Finally, the cookbook format is here
 to help you quickly identify the topic of interest and in it a wide
 range of practical solutions, that is - MDX recipes for your
 success. Style and approach This book is written in a cookbook
 format, where you can browse through and look for solutions to a
 particular problem in one place. Each recipe is short, to the point

and grouped by relevancy. All the recipes are sequenced in a
 logical progression; you will be able to build up your
 understanding of the topic incrementally.

Data Mining Cookbook "O'Reilly Media, Inc."

Over 85 recipes to help you complete real-world data science
 projects in R and Python About This Book Tackle every step in the
 data science pipeline and use it to acquire, clean, analyze, and
 visualize your data Get beyond the theory and implement real-
 world projects in data science using R and Python Easy-to-follow
 recipes will help you understand and implement the numerical
 computing concepts Who This Book Is For If you are an aspiring
 data scientist who wants to learn data science and numerical
 programming concepts through hands-on, real-world project
 examples, this is the book for you. Whether you are brand new to
 data science or you are a seasoned expert, you will benefit from
 learning about the structure of real-world data science projects
 and the programming examples in R and Python. What You Will
 Learn Learn and understand the installation procedure and
 environment required for R and Python on various platforms
 Prepare data for analysis by implement various data science
 concepts such as acquisition, cleaning and munging through R
 and Python Build a predictive model and an exploratory model
 Analyze the results of your model and create reports on the
 acquired data Build various tree-based methods and Build random
 forest In Detail As increasing amounts of data are generated each
 year, the need to analyze and create value out of it is more
 important than ever. Companies that know what to do with their
 data and how to do it well will have a competitive advantage over
 companies that don't. Because of this, there will be an increasing
 demand for people that possess both the analytical and technical
 abilities to extract valuable insights from data and create valuable
 solutions that put those insights to use. Starting with the basics,
 this book covers how to set up your numerical programming
 environment, introduces you to the data science pipeline, and
 guides you through several data projects in a step-by-step format.
 By sequentially working through the steps in each chapter, you
 will quickly familiarize yourself with the process and learn how to
 apply it to a variety of situations with examples using the two
 most popular programming languages for data analysis—R and
 Python. Style and approach This step-by-step guide to data
 science is full of hands-on examples of real-world data science
 tasks. Each recipe focuses on a particular task involved in the
 data science pipeline, ranging from readying the dataset to
 analytics and visualization

Tableau Cookbook - Recipes for Data Visualization "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.
Data Analysis with Open Source Tools John Wiley & Sons
 Gain a broad foundation of advanced data analytics concepts and
 discover the recent revolution in databases such as Neo4j,
 Elasticsearch, and MongoDB. This book discusses how to
 implement ETL techniques including topical crawling, which is
 applied in domains such as high-frequency algorithmic trading
 and goal-oriented dialog systems. You'll also see examples of

machine learning concepts such as semi-supervised learning, deep learning, and NLP. Advanced Data Analytics Using Python also covers important traditional data analysis techniques such as time series and principal component analysis. After reading this book you will have experience of every technical aspect of an analytics project. You'll get to know the concepts using Python code, giving you samples to use in your own projects. What You Will Learn Work with data analysis techniques such as classification, clustering, regression, and forecasting Handle structured and unstructured data, ETL techniques, and different kinds of databases such as Neo4j, Elasticsearch, MongoDB, and MySQL Examine the different big data frameworks, including Hadoop and Spark Discover advanced machine learning concepts such as semi-supervised learning, deep learning, and NLP Who This Book Is For Data scientists and software developers interested in the field of data analytics.

Statistical Methods for Food Science Packt Publishing Ltd Dive into data analysis with Clojure through over 100 practical recipes for every stage of the analysis and collection process In Detail As data invades more and more of life and business, the need to analyze it effectively has never been greater. With Clojure and this book, you'll soon be getting to grips with every aspect of data analysis. You'll start with practical recipes that show you how to load and clean your data, then get concise instructions to perform all the essential analysis tasks from basic statistics to sophisticated machine learning and data clustering algorithms. Get a more intuitive handle on your data through hands-on visualization techniques that allow you to provide interesting, informative, and compelling reports, and use Clojure to publish your findings to the Web. What You Will Learn Read data from a variety of data formats Transform data to make it more useful and easier to analyze Process data concurrently and in parallel for faster performance Harness multiple computers to analyze big data Use powerful data analysis libraries such as Incanter, Hadoop, and Weka to get things done quickly Apply powerful clustering and data mining techniques to better understand your data Downloading the example code for this book. You can download the example code files for all Packt books you have purchased from your account at <http://www.PacktPub.com>. If you purchased this book elsewhere, you can visit <http://www.PacktPub.com/support> and register to have the files e-mailed directly to you.

Microsoft Power BI Cookbook Packt Publishing Ltd With more than 200 practical recipes, this book helps you perform data analysis with R quickly and efficiently. The R language provides everything you need to do statistical work, but its structure can be difficult to master. This collection of concise, task-oriented recipes makes you productive with R immediately, with solutions ranging from basic tasks to input and output, general statistics, graphics, and linear regression. Each recipe addresses a specific problem, with a discussion that explains the solution and offers insight into how it works. If you're a beginner, R Cookbook will help get you started. If you're an experienced data programmer, it will jog your memory and expand your horizons. You'll get the job done faster and learn more about R in the process. Create vectors, handle variables, and perform other basic functions Input and output data Tackle data structures such as matrices, lists, factors, and data frames Work with probability, probability distributions, and random variables Calculate statistics and confidence intervals, and perform statistical tests Create a variety of graphic displays Build statistical models with linear regressions and analysis of variance (ANOVA) Explore advanced statistical techniques, such as finding clusters in your data "Wonderfully readable, R Cookbook serves not only as a solutions manual of sorts, but as a truly enjoyable way to explore the R language—one practical example at a time."—Jeffrey Ryan, software consultant and R package author

Pandas Cookbook Packt Publishing Ltd Useful business analysis requires you to effectively transform data into actionable information. This book helps you use SQL and Excel to extract business information from relational databases and use that data to define business dimensions, store transactions about customers, produce results, and more. Each chapter explains when and why to perform a particular type of business analysis in order to obtain useful results, how to design and perform the analysis using SQL and Excel, and what the results should look like.

R Data Analysis Cookbook, Second Edition Packt Publishing Ltd Over 60 practical recipes on data exploration and analysis About This Book Clean dirty data, extract accurate information, and explore the relationships between variables Forecast the output of an electric plant and the water flow of American rivers using pandas, NumPy, Statsmodels, and scikit-learn Find and extract the most important features from your dataset using the most efficient Python libraries Who This Book Is For If you are a beginner or intermediate-level professional who is looking to solve your day-to-day, analytical problems with Python, this book is for you. Even with no prior programming and data analytics experience, you will be able to finish each recipe and learn while doing so. What You Will Learn Read, clean, transform, and store your data using Pandas and OpenRefine Understand your data and explore the relationships between variables using Pandas and

D3.js Explore a variety of techniques to classify and cluster outbound marketing campaign calls data of a bank using Pandas, mply, NumPy, and Statsmodels Reduce the dimensionality of your dataset and extract the most important features with pandas, NumPy, and mply Predict the output of a power plant with regression models and forecast water flow of American rivers with time series methods using pandas, NumPy, Statsmodels, and scikit-learn Explore social interactions and identify fraudulent activities with graph theory concepts using NetworkX and Gephi Scrape Internet web pages using urllib and BeautifulSoup and get to know natural language processing techniques to classify movies ratings using NLTK Study simulation techniques in an example of a gas station with agent-based modeling In Detail Data analysis is the process of systematically applying statistical and logical techniques to describe and illustrate, condense and recap, and evaluate data. Its importance has been most visible in the sector of information and communication technologies. It is an employee asset in almost all economy sectors. This book provides a rich set of independent recipes that dive into the world of data analytics and modeling using a variety of approaches, tools, and algorithms. You will learn the basics of data handling and modeling, and will build your skills gradually toward more advanced topics such as simulations, raw text processing, social interactions analysis, and more. First, you will learn some easy-to-follow practical techniques on how to read, write, clean, reformat, explore, and understand your data—arguably the most time-consuming (and the most important) tasks for any data scientist. In the second section, different independent recipes delve into intermediate topics such as classification, clustering, predicting, and more. With the help of these easy-to-follow recipes, you will also learn techniques that can easily be expanded to solve other real-life problems such as building recommendation engines or predictive models. In the third section, you will explore more advanced topics: from the field of graph theory through natural language processing, discrete choice modeling to simulations. You will also get to expand your knowledge on identifying fraud origin with the help of a graph, scrape Internet websites, and classify movies based on their reviews. By the end of this book, you will be able to efficiently use the vast array of tools that the Python environment has to offer. Style and approach This hands-on recipe guide is divided into three sections that tackle and overcome real-world data modeling problems faced by data analysts/scientist in their everyday work. Each independent recipe is written in an easy-to-follow and step-by-step fashion.

Web Development Recipes Packt Publishing Ltd Over 80 recipes to help you breeze through your data analysis projects using R In Detail Data analytics with R has emerged as a very important focus for organizations of all kinds. R enables even those with only an intuitive grasp of the underlying concepts, without a deep mathematical background, to unleash powerful and detailed examinations of their data. This book empowers you by showing you ways to use R to generate professional analysis reports. It provides examples for various important analysis and machine-learning tasks that you can try out with associated and readily available data. The book also teaches you to quickly adapt the example code for your own needs and save yourself the time needed to construct code from scratch. What You Will Learn perform advanced analyses and create informative and professional charts become proficient in acquiring data from many sources apply supervised and unsupervised data mining techniques use R's features to present analyses professionally Get data into your R environment and prepare it for analysis Perform exploratory data analyses and generate meaningful visualizations of the data Apply several machine-learning techniques for classification and regression Get your hands around large data sets with the help of reduction techniques Extract patterns from time-series data and produce forecasts based on them Learn how to extract actionable information from social network data Implement geospatial analysis Present your analysis convincingly through reports and build an infrastructure to enable others to play with your data Downloading the example code for this book. You can download the example code files for all Packt books you have purchased from your account at <http://www.PacktPub.com>. If you purchased this book elsewhere, you can visit <http://www.PacktPub.com/support> and register to have the files e-mailed directly to you.

Clojure Data Analysis Cookbook - Second Edition John Wiley & Sons Create beautiful data visualizations and interactive dashboards with Tableau About This Book Delve into the features and functionalities of Tableau from the ground up with this step-by-step guide that has over 50 "follow-me" recipes Build rich visualizations to effectively highlight the underlying trends and patterns in your data Build beautiful interactive dashboards and storyboards to stitch your visualizations together and tell a story Who This Book Is For This book is for anyone who wishes to use Tableau. It will be of use to both beginners who want to learn Tableau from scratch and to more seasoned users who simply want a quick reference guide. This book is a ready reckoner guide for you. The book will be such that both new & existing Tableau users who don't know, or can't recall how to perform different Tableau tasks can use the book and be benefited from it. What

You Will Learn Get to grips with the Tableau workspace and terminologies and understand what data sources you can connect Learn to create basic charts like bar chart, stacked bar, pie chart, line chart, area chart, tree map & word cloud Go even further with more advanced visualizations such as scatter plot, box & whiskers plot, dual axis, bullet chart, Histograms, Maps, etc Use pre-defined calculation and change its scope and direction to affect outcome Learn to define Parameters and call them into parametric calculations that provide outcomes based on user inputs Build Dashboards and use Actions to link multiple sheets on the dashboard Connect to multiple data sources using Data Blending, Multiple Table Join within the same data source as well as across data sources, Custom SQL and learn to work with data Extracts Compute statistical trends, build forecasting models and use Reference lines for benchmarking In Detail Data is everywhere and everything is data! Visualization of data allows us to bring out the underlying trends and patterns inherent in the data and gain insights that enable faster and smarter decision making. Tableau is one of the fastest growing and industry leading Business Intelligence platforms that empowers business users to easily visualize their data and discover insights at the speed of thought. Tableau is a self-service BI platform designed to make data visualization and analysis as intuitive as possible. Creating visualizations with simple drag-and-drop, you can be up and running on Tableau in no time. Starting from the fundamentals such as getting familiarized with Tableau Desktop, connecting to common data sources and building standard charts; you will walk through the nitty gritty of Tableau such as creating dynamic analytics with parameters, blended data sources, and advanced calculations. You will also learn to group members into higher levels, sort the data in a specific order & filter out the unnecessary information. You will then create calculations in Tableau & understand the flexibility & power they have and go on to building story-boards and share your insights with others. Whether you are just getting started or whether you need a quick reference on a "how-to" question, This book is the perfect companion for you Style and approach This cookbook takes a step-by-step approach and the text systematically evolves to cover more involved functionalities. Every recipe includes illustrative screenshots which provide a detailed visual resource for each step.

Tableau Prep Cookbook Packt Publishing Ltd Discover how to describe your data in detail, identify data issues, and find out how to solve them using commonly used techniques and tips and tricks Key Features Get well-versed with various data cleaning techniques to reveal key insights Manipulate data of different complexities to shape them into the right form as per your business needs Clean, monitor, and validate large data volumes to diagnose problems before moving on to data analysis Book Description Getting clean data to reveal insights is essential, as directly jumping into data analysis without proper data cleaning may lead to incorrect results. This book shows you tools and techniques that you can apply to clean and handle data with Python. You'll begin by getting familiar with the shape of data by using practices that can be deployed routinely with most data sources. Then, the book teaches you how to manipulate data to get it into a useful form. You'll also learn how to filter and summarize data to gain insights and better understand what makes sense and what does not, along with discovering how to operate on data to address the issues you've identified. Moving on, you'll perform key tasks, such as handling missing values, validating errors, removing duplicate data, monitoring high volumes of data, and handling outliers and invalid dates. Next, you'll cover recipes on using supervised learning and Naive Bayes analysis to identify unexpected values and classification errors, and generate visualizations for exploratory data analysis (EDA) to visualize unexpected values. Finally, you'll build functions and classes that you can reuse without modification when you have new data. By the end of this Python book, you'll be equipped with all the key skills that you need to clean data and diagnose problems within it. What you will learn Find out how to read and analyze data from a variety of sources Produce summaries of the attributes of data frames, columns, and rows Filter data and select columns of interest that satisfy given criteria Address messy data issues, including working with dates and missing values Improve your productivity in Python pandas by using method chaining Use visualizations to gain additional insights and identify potential data issues Enhance your ability to learn what is going on in your data Build user-defined functions and classes to automate data cleaning Who this book is for This book is for anyone looking for ways to handle messy, duplicate, and poor data using different Python tools and techniques. The book takes a recipe-based approach to help you to learn how to clean and manage data. Working knowledge of Python programming is all you need to get the most out of the book.

IPython Interactive Computing and Visualization Cookbook 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

R Data Analysis Cookbook Packt Publishing Ltd

Perform data analysis with R quickly and efficiently with more than 275 practical recipes in this expanded second edition. The R language provides everything you need to do statistical work, but its structure can be difficult to master. These task-oriented recipes make you productive with R immediately. Solutions range from basic tasks to input and output, general statistics, graphics, and linear regression. Each recipe addresses a specific problem and includes a discussion that explains the solution and provides insight into how it works. If you're a beginner, R Cookbook will help get you started. If you're an intermediate user, this book will jog your memory and expand your horizons. You'll get the job done faster and learn more about R in the process. Create vectors, handle variables, and perform basic functions Simplify data input and output Tackle data structures such as matrices, lists, factors, and data frames Work with probability, probability distributions, and random variables Calculate statistics and confidence intervals and perform statistical tests Create a variety of graphic displays Build statistical models with linear regressions and analysis of variance (ANOVA) Explore advanced statistical techniques, such as finding clusters in your data

SQL Cookbook Pragmatic Bookshelf

Explore common and not-so-common data transformation scenarios and solutions to become well-versed with Tableau Prep and create efficient and powerful data pipelines Key Features Combine, clean, and shape data for analysis using self-service data preparation techniques Become proficient with Tableau Prep for building and managing data flows across your organization Learn how to combine multiple data transformations in order to build a robust dataset Book Description Tableau Prep is a tool in the Tableau software suite, created specifically to develop data pipelines. This book will describe, in detail, a variety of scenarios that you can apply in your environment for developing, publishing, and maintaining complex Extract, Transform and Load (ETL) data pipelines. The book starts by showing you how to set up Tableau Prep Builder. You'll learn how to obtain data from various data sources, including files, databases, and Tableau Extracts. Next, the book demonstrates how to perform data cleaning and data aggregation in Tableau Prep Builder. You'll also gain an understanding of Tableau Prep Builder and how you can leverage it to create data pipelines that prepare your data for downstream analytics processes, including reporting and dashboard creation in Tableau. As part of a Tableau Prep flow, you'll also explore how to use R and Python to implement data science components inside a data pipeline. In the final chapter, you'll apply the knowledge you've gained to build two use cases from scratch, including a data flow for a retail store to prepare a robust dataset using multiple disparate sources and a data flow for a call center to perform ad hoc data analysis. By the end of this book, you'll be able to create, run, and publish Tableau Prep flows and implement solutions to common problems in data pipelines. What you will learn Perform data cleaning and preparation techniques for advanced data analysis Understand how to combine multiple disparate datasets Prepare data for different Business Intelligence (BI) tools Apply Tableau Prep's calculation language to create powerful calculations Use Tableau Prep for ad hoc data analysis and data science flows Deploy Tableau Prep flows to Tableau Server and Tableau Online Who this book is for This book is for business intelligence professionals, data analysts, and Tableau users looking to learn Tableau Prep essentials and create data pipelines or ETL processes using it. Beginner-level knowledge of data management will be beneficial to understand the concepts covered in this Tableau cookbook more effectively.

R Cookbook Packt Publishing Ltd

If you are a data journalist, academician, student or freelance designer who wants to learn about data visualization, this book is for you. Basic knowledge of R programming is expected.

Azure Data Engineering Cookbook Packt Publishing Ltd

Modern web development is so much more than just HTML and CSS with a little JavaScript mixed in. People want faster, more usable interfaces that work on multiple devices, and you need the latest tools and techniques to make that happen. This book gives you over 40 concise solutions to today's web development problems, and introduces new solutions that will expand your skill set--proven, practical advice from authors who use these tools and techniques every day. In this completely updated edition,

you'll find innovative new techniques and workflows, as well as reworked solutions that take advantage of new developments. Web development is constantly changing, and you need to stay on top of your game. Discover a wide spectrum of web development techniques, from how to improve the way you present content, to solutions for data analysis, testing, and deployment. In this edition we introduce new tools, add new recipes, and modernize old ones. You'll use Vagrant to automate server setup, and you'll discover new ways to develop blogs and static sites. You'll learn how to use Grunt to script the deployment of your web project, and use Angular to build a single-page app. You'll learn how to make content stand out with simple cross-browser styles; create animations that work well everywhere without plugins; and create lightweight, responsive layouts. We'll show you how to use preprocessors like CoffeeScript and Sass; write tests for your code; use Git and Dropbox to collaborate; configure and secure the Apache web server; use virtualization to set up your own servers automatically; and much more. Whether you're new to front-end development, or you've got a few years of experience, you'll become a more versatile developer by finding out how--and why--to use these solutions in your next project. What You Need: Your favorite text editor, the most current version of Mozilla Firefox, Internet Explorer, Google Chrome or Safari, and a working knowledge of HTML and JavaScript. Familiarity with command-line interfaces is a plus.

Pandas 1.x Cookbook "O'Reilly Media, Inc."

Over 140 practical recipes to help you make sense of your data with ease and build production-ready data apps About This Book Analyze Big Data sets, create attractive visualizations, and manipulate and process various data types Packed with rich recipes to help you learn and explore amazing algorithms for statistics and machine learning Authored by Ivan Idris, expert in python programming and proud author of eight highly reviewed books Who This Book Is For This book teaches Python data analysis at an intermediate level with the goal of transforming you from journeyman to master. Basic Python and data analysis skills and affinity are assumed. What You Will Learn Set up reproducible data analysis Clean and transform data Apply advanced statistical analysis Create attractive data visualizations Web scrape and work with databases, Hadoop, and Spark Analyze images and time series data Mine text and analyze social networks Use machine learning and evaluate the results Take advantage of parallelism and concurrency In Detail Data analysis is a rapidly evolving field and Python is a multi-paradigm programming language suitable for object-oriented application development and functional design patterns. As Python offers a range of tools and libraries for all purposes, it has slowly evolved as the primary language for data science, including topics on: data analysis, visualization, and machine learning. Python Data Analysis Cookbook focuses on reproducibility and creating production-ready systems. You will start with recipes that set the foundation for data analysis with libraries such as matplotlib, NumPy, and pandas. You will learn to create visualizations by choosing color maps and palettes then dive into statistical data analysis using distribution algorithms and correlations. You'll then help you find your way around different data and numerical problems, get to grips with Spark and HDFS, and then set up migration scripts for web mining. In this book, you will dive deeper into recipes on spectral analysis, smoothing, and bootstrapping methods. Moving on, you will learn to rank stocks and check market efficiency, then work with metrics and clusters. You will achieve parallelism to improve system performance by using multiple threads and speeding up your code. By the end of the book, you will be capable of handling various data analysis techniques in Python and devising solutions for problem scenarios. Style and Approach The book is written in "cookbook" style striving for high realism in data analysis. Through the recipe-based format, you can read each recipe separately as required and immediately apply the knowledge gained.

Python for Data Analysis Packt Publishing Ltd

Given the improved analytical capabilities of Excel, scientists and engineers everywhere are using it--instead of FORTRAN--to solve problems. And why not? Excel is installed on millions of computers, features a rich set of built-in analyses tools, and includes an integrated Visual Basic for Applications (VBA) programming language. No wonder it's today's computing tool of choice. Chances are you already use Excel to perform some fairly routine calculations. Now the Excel Scientific and Engineering Cookbook shows you how to leverage Excel to perform more complex calculations, too, calculations that once fell in the domain of specialized tools. It does so by putting a smorgasbord of data analysis techniques right at your fingertips. The book shows how to perform these useful tasks and others: Use Excel and VBA in general Import data from a variety of sources Analyze data Perform calculations Visualize the results for interpretation and presentation Use Excel to solve specific science and engineering problems Wherever possible, the Excel Scientific and Engineering Cookbook draws on real-world examples from a range of scientific disciplines such as biology, chemistry, and physics. This way, you'll be better prepared to solve the problems you face in your everyday scientific or engineering tasks. High on

practicality and low on theory, this quick, look-up reference provides instant solutions, or "recipes," to problems both basic and advanced. And like other books in O'Reilly's popular Cookbook format, each recipe also includes a discussion on how and why it works. As a result, you can take comfort in knowing that complete, practical answers are a mere page-flip away. **Practical Data Science Cookbook** Packt Publishing Ltd Over 90 recipes to help you orchestrate modern ETL/ELT workflows and perform analytics using Azure services more easily Key Features Build highly efficient ETL pipelines using the Microsoft Azure Data services Create and execute real-time processing solutions using Azure Databricks, Azure Stream Analytics, and Azure Data Explorer Design and execute batch processing solutions using Azure Data Factory Book Description Data engineering is one of the faster growing job areas as Data Engineers are the ones who ensure that the data is extracted, provisioned and the data is of the highest quality for data analysis. This book uses various Azure services to implement and maintain infrastructure to extract data from multiple sources, and then transform and load it for data analysis. It takes you through different techniques for performing big data engineering using Microsoft Azure Data services. It begins by showing you how Azure Blob storage can be used for storing large amounts of unstructured data and how to use it for orchestrating a data workflow. You'll then work with different Cosmos DB APIs and Azure SQL Database. Moving on, you'll discover how to provision an Azure Synapse database and find out how to ingest and analyze data in Azure Synapse. As you advance, you'll cover the design and implementation of batch processing solutions using Azure Data Factory, and understand how to manage, maintain, and secure Azure Data Factory pipelines. You'll also design and implement batch processing solutions using Azure Databricks and then manage and secure Azure Databricks clusters and jobs. In the concluding chapters, you'll learn how to process streaming data using Azure Stream Analytics and Data Explorer. By the end of this Azure book, you'll have gained the knowledge you need to be able to orchestrate batch and real-time ETL workflows in Microsoft Azure. What you will learn Use Azure Blob storage for storing large amounts of unstructured data Perform CRUD operations on the Cosmos Table API Implement elastic pools and business continuity with Azure SQL Database Ingest and analyze data using Azure Synapse Analytics Develop Data Factory data flows to extract data from multiple sources Manage, maintain, and secure Azure Data Factory pipelines Process streaming data using Azure Stream Analytics and Data Explorer Who this book is for This book is for Data Engineers, Database administrators, Database developers, and extract, load, transform (ETL) developers looking to build expertise in Azure Data engineering using a recipe-based approach. Technical architects and database architects with experience in designing data or ETL applications either on-premise or on any other cloud vendor who wants to learn Azure Data engineering concepts will also find this book useful. Prior knowledge of Azure fundamentals and data engineering concepts is needed.

Practical Data Analysis Cookbook Packt Publishing

Navigate the world of data analysis, visualization, and machine learning with over 100 hands-on Scala recipes About This Book Implement Scala in your data analysis using features from Spark, Breeze, and Zeppelin Scale up your data analytics infrastructure with practical recipes for Scala machine learning Recipes for every stage of the data analysis process, from reading and collecting data to distributed analytics Who This Book Is For This book shows data scientists and analysts how to leverage their existing knowledge of Scala for quality and scalable data analysis. What You Will Learn Familiarize and set up the Breeze and Spark libraries and use data structures Import data from a host of possible sources and create dataframes from CSV Clean, validate and transform data using Scala to pre-process numerical and string data Integrate quintessential machine learning algorithms using Scala stack Bundle and scale up Spark jobs by deploying them into a variety of cluster managers Run streaming and graph analytics in Spark to visualize data, enabling exploratory analysis In Detail This book will introduce you to the most popular Scala tools, libraries, and frameworks through practical recipes around loading, manipulating, and preparing your data. It will also help you explore and make sense of your data using stunning and insightful visualizations, and machine learning toolkits. Starting with introductory recipes on utilizing the Breeze and Spark libraries, get to grips with how to import data from a host of possible sources and how to pre-process numerical, string, and date data. Next, you'll get an understanding of concepts that will help you visualize data using the Apache Zeppelin and Bokeh bindings in Scala, enabling exploratory data analysis. Discover how to program quintessential machine learning algorithms using Spark ML library. Work through steps to scale your machine learning models and deploy them into a standalone cluster, EC2, YARN, and Mesos. Finally dip into the powerful options presented by Spark Streaming, and machine learning for streaming data, as well as utilizing Spark GraphX. Style and approach This book contains a rich set of recipes that covers the full spectrum of interesting data analysis tasks and will help you revolutionize your data analysis skills using Scala and Spark.