

EXPERT INSIGHT

Python Data Cleaning Cookbook

Prepare your data for analysis with pandas,
NumPy, Matplotlib, scikit-learn, and OpenAI

Second Edition

Michael Walker



<packt>

Python Data Science Cookbook

Padma Priya Chitturi



Python Data Science Cookbook:

Python Data Science Cookbook Gopi Subramanian, 2015-11-11 Over 60 practical recipes to help you explore Python and its robust data science capabilities

About This Book The book is packed with simple and concise Python code examples to effectively demonstrate advanced concepts in action Explore concepts such as programming data mining data analysis data visualization and machine learning using Python Get up to speed on machine learning algorithms with the help of easy to follow insightful recipes

Who This Book Is For This book is intended for all levels of Data Science professionals both students and practitioners starting from novice to experts Novices can spend their time in the first five chapters getting themselves acquainted with Data Science Experts can refer to the chapters starting from 6 to understand how advanced techniques are implemented using Python People from non Python backgrounds can also effectively use this book but it would be helpful if you have some prior basic programming experience

What You Will Learn Explore the complete range of Data Science algorithms Get to know the tricks used by industry engineers to create the most accurate data science models Manage and use Python libraries such as numpy scipy scikit learn and matplotlib effectively Create meaningful features to solve real world problems Take a look at Advanced Regression methods for model building and variable selection Get a thorough understanding of the underlying concepts and implementation of Ensemble methods Solve real world problems using a variety of different datasets from numerical and text data modalities Get accustomed to modern state of the art algorithms such as Gradient Boosting Random Forest Rotation Forest and so on

In Detail Python is increasingly becoming the language for data science It is overtaking R in terms of adoption it is widely known by many developers and has a strong set of libraries such as Numpy Pandas scikit learn Matplotlib Ipython and Scipy to support its usage in this field Data Science is the emerging new hot tech field which is an amalgamation of different disciplines including statistics machine learning and computer science It is a disruptive technology changing the face of today's business and altering the economy of various verticals including retail manufacturing online ventures and hospitality to name a few in a big way This book will walk you through the various steps starting from simple to the most complex algorithms available in the Data Science arsenal to effectively mine data and derive intelligence from it At every step we provide simple and efficient Python recipes that will not only show you how to implement these algorithms but also clarify the underlying concept thoroughly The book begins by introducing you to using Python for Data Science followed by working with Python environments You will then learn how to analyse your data with Python The book then teaches you the concepts of data mining followed by an extensive coverage of machine learning methods It introduces you to a number of Python libraries available to help implement machine learning and data mining routines effectively It also covers the principles of shrinkage ensemble methods random forest rotation forest and extreme trees which are a must have for any successful Data Science Professional

Style and approach This is a step by step recipe based approach to Data Science algorithms introducing the math philosophy behind these algorithms

Python Data Science Cookbook Taryn Voska, 2025-02-10 This book's got a bunch of handy recipes for data science pros to get them through the most common challenges they face when using Python tools and libraries Each recipe shows you exactly how to do something step by step You can load CSVs directly from a URL flatten nested JSON query SQL and NoSQL databases import Excel sheets or stream large files in memory safe batches Once the data's loaded you'll find simple ways to spot and fill in missing values standardize categories that are off clip outliers normalize features get rid of duplicates and extract the year month or weekday from timestamps You'll learn how to run quick analyses like generating descriptive statistics plotting histograms and correlation heatmaps building pivot tables creating scatter matrix plots and drawing time series line charts to spot trends You'll learn how to build polynomial features compare MinMax Standard and Robust scaling smooth data with rolling averages apply PCA to reduce dimensions and encode high cardinality fields with sparse one hot encoding using feature engineering recipes As for machine learning you'll learn to put together end to end pipelines that handle imputation scaling feature selection and modeling in one object create custom transformers automate hyperparameter searches with GridSearchCV save and load your pipelines and let SelectKBest pick the top features automatically You'll learn how to test hypotheses with t tests and chi square tests build linear and Ridge regressions work with decision trees and random forests segment countries using clustering and evaluate models using MSE classification reports and ROC curves And you'll finally get a handle on debugging and integration fixing pandas merge errors correcting NumPy broadcasting mismatches and making sure your plots are consistent Key Learnings You can load remote CSVs directly into pandas using read_csv so you don't have to deal with manual downloads and file clutter Use json_normalize to convert nested JSON responses into simple tables making it a breeze to analyze You can query relational and NoSQL databases directly from Python and the results will merge seamlessly into Pandas Find and fill in missing values using IGNSA forward fill and median strategies for all of your data over time You can free up a lot of memory by turning string columns into Pandas Categorical dtype You can speed up computations with NumPy vectorization and chunked CSV reading to prevent RAM exhaustion You can build feature pipelines using custom transformers scaling and automated hyperparameter tuning with GridSearchCV Use regression tree based and clustering algorithms to show linear nonlinear and group specific vaccination patterns Evaluate models using MSE R precision recall and ROC curves to assess their performance Set up automated data retrieval with scheduled API pulls cloud storage Kafka streams and GraphQL queries Table of Content Data Ingestion from Multiple Sources Preprocessing and Cleaning Complex Datasets Performing Quick Exploratory Analysis Optimizing Data Structures and Performance Feature Engineering and Transformation Building Machine Learning Pipelines Implementing Statistical and Machine Learning Techniques Debugging and Troubleshooting Advanced Data Retrieval and Integration

[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

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Python Data Science Handbook Jake VanderPlas, 2022-12-06 Python is a first class tool for many researchers primarily 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 new edition of 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 the second edition of 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 IPython and Jupyter provide computational environments for scientists using Python NumPy includes the ndarray for efficient storage and manipulation of dense data arrays Pandas contains the DataFrame for efficient storage and manipulation of labeled columnar data Matplotlib includes capabilities for a flexible range of data visualizations Scikit learn helps you build efficient and clean Python implementations of the most important and established machine learning algorithms

Practical Data Science Cookbook Prabhanjan Tattar, Tony Ojeda, Sean Patrick Murphy, Benjamin Bengfort, Abhijit Dasgupta, 2017-06-29 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 reading the dataset to analytics and visualization

Python Data Analysis Cookbook Ivan Idris, 2016-07-22 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 Data Cleaning Cookbook Michael Walker, 2020-12-11

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

Python Data Science Essentials Alberto Boschetti, Luca Massaron, 2018-09-28 Gain useful insights from your data using popular data science tools Key Features A one stop guide to Python libraries such as pandas and NumPy Comprehensive coverage of data science operations such as data cleaning and data manipulation Choose scalable learning algorithms for your data science tasks Book Description Fully expanded and upgraded the latest edition of Python Data Science Essentials

will help you succeed in data science operations using the most common Python libraries This book offers up to date insight into the core of Python including the latest versions of the Jupyter Notebook NumPy pandas and scikit learn The book covers detailed examples and large hybrid datasets to help you grasp essential statistical techniques for data collection data munging and analysis visualization and reporting activities You will also gain an understanding of advanced data science topics such as machine learning algorithms distributed computing tuning predictive models and natural language processing Furthermore You ll also be introduced to deep learning and gradient boosting solutions such as XGBoost LightGBM and CatBoost By the end of the book you will have gained a complete overview of the principal machine learning algorithms graph analysis techniques and all the visualization and deployment instruments that make it easier to present your results to an audience of both data science experts and business users What you will learn Set up your data science toolbox on Windows Mac and Linux Use the core machine learning methods offered by the scikit learn library Manipulate fix and explore data to solve data science problems Learn advanced explorative and manipulative techniques to solve data operations Optimize your machine learning models for optimized performance Explore and cluster graphs taking advantage of interconnections and links in your data Who this book is for If you re a data science entrant data analyst or data engineer this book will help you get ready to tackle real world data science problems without wasting any time Basic knowledge of probability statistics and Python coding experience will assist you in understanding the concepts covered in this book

Python Data Visualization Cookbook Igor Milovanovic, Dimitry Foures, Giuseppe Vettigli, 2015-11-30 Over 70 recipes to get you started with popular Python libraries based on the principal concepts of data visualization About This Book Learn how to set up an optimal Python environment for data visualization Understand how to import clean and organize your data Determine different approaches to data visualization and how to choose the most appropriate for your needs Who This Book Is For If you already know about Python programming and want to understand data data formats data visualization and how to use Python to visualize data then this book is for you What You Will Learn Introduce yourself to the essential tooling to set up your working environment Explore your data using the capabilities of standard Python Data Library and Panda Library Draw your first chart and customize it Use the most popular data visualization Python libraries Make 3D visualizations mainly using mplot3d Create charts with images and maps Understand the most appropriate charts to describe your data Know the matplotlib hidden gems Use plot ly to share your visualization online In Detail Python Data Visualization Cookbook will progress the reader from the point of installing and setting up a Python environment for data manipulation and visualization all the way to 3D animations using Python libraries Readers will benefit from over 60 precise and reproducible recipes that will guide the reader towards a better understanding of data concepts and the building blocks for subsequent and sometimes more advanced concepts Python Data Visualization Cookbook starts by showing how to set up matplotlib and the related libraries that are required for most parts of the book before moving on to discuss some of the lesser used diagrams and charts such as

Gantt Charts or Sankey diagrams Initially it uses simple plots and charts to more advanced ones to make it easy to understand for readers As the readers will go through the book they will get to know about the 3D diagrams and animations Maps are irreplaceable for displaying geo spatial data so this book will also show how to build them In the last chapter it includes explanation on how to incorporate matplotlib into different environments such as a writing system LaTeX or how to create Gantt charts using Python Style and approach A step by step recipe based approach to data visualization The topics are explained sequentially as cookbook recipes consisting of a code snippet and the resulting visualization [Apache Spark for Data Science Cookbook](#) Padma Priya Chitturi,2016-12-22 Over insightful 90 recipes to get lightning fast analytics with Apache Spark About This Book Use Apache Spark for data processing with these hands on recipes Implement end to end large scale data analysis better than ever before Work with powerful libraries such as MLLib SciPy NumPy and Pandas to gain insights from your data Who This Book Is For This book is for novice and intermediate level data science professionals and data analysts who want to solve data science problems with a distributed computing framework Basic experience with data science implementation tasks is expected Data science professionals looking to skill up and gain an edge in the field will find this book helpful What You Will Learn Explore the topics of data mining text mining Natural Language Processing information retrieval and machine learning Solve real world analytical problems with large data sets Address data science challenges with analytical tools on a distributed system like Spark apt for iterative algorithms which offers in memory processing and more flexibility for data analysis at scale Get hands on experience with algorithms like Classification regression and recommendation on real datasets using Spark MLLib package Learn about numerical and scientific computing using NumPy and SciPy on Spark Use Predictive Model Markup Language PMML in Spark for statistical data mining models In Detail Spark has emerged as the most promising big data analytics engine for data science professionals The true power and value of Apache Spark lies in its ability to execute data science tasks with speed and accuracy Spark s selling point is that it combines ETL batch analytics real time stream analysis machine learning graph processing and visualizations It lets you tackle the complexities that come with raw unstructured data sets with ease This guide will get you comfortable and confident performing data science tasks with Spark You will learn about implementations including distributed deep learning numerical computing and scalable machine learning You will be shown effective solutions to problematic concepts in data science using Spark s data science libraries such as MLLib Pandas NumPy SciPy and more These simple and efficient recipes will show you how to implement algorithms and optimize your work Style and approach This book contains a comprehensive range of recipes designed to help you learn the fundamentals and tackle the difficulties of data science This book outlines practical steps to produce powerful insights into Big Data through a recipe based approach

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