Python Data Science Cookbook

Over 60 practical recipes to help you explore
Python and its robust data science capabilities

Gopi Subramanian

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Subramanian Python Data Science Cookbook

Tarek A. Atwan

Subramanian 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 capabilitiesAbout 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 recipesWho This Book Is ForThis 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 onIn DetailPython 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 s 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 approachThis is a step by step recipe based approach to Data Science algorithms introducing the math philosophy behind these algorithms

Applied Machine Learning for Data Science Practitioners Vidya Subramanian,2025-04-29 A single volume reference on data science techniques for evaluating and solving business problems using Applied Machine Learning ML Applied Machine Learning for Data Science Practitioners offers a practical step by step guide to building end to end ML solutions for real world business challenges empowering data science practitioners to make informed decisions and select the right techniques for any use case Unlike many data science books that focus on popular algorithms and coding this book takes a holistic approach It equips you with the knowledge to evaluate a range of techniques and algorithms The book balances theoretical concepts with practical examples to illustrate key concepts derive insights and demonstrate applications In addition to code snippets and reviewing output the book provides guidance on interpreting results This book is an essential resource if you are looking to elevate your understanding of ML and your technical capabilities combining theoretical and practical coding examples A basic understanding of using data to solve business problems high school level math and statistics and basic Python coding skills are assumed Written by a recognized data science expert Applied Machine Learning for Data Science Practitioners covers essential topics including Data Science Fundamentals that provide you with an overview of core concepts laying the foundation for understanding ML Data Preparation covers the process of framing ML problems and preparing data and features for modeling ML Problem Solving introduces you to a range of ML algorithms including Regression Classification Ranking Clustering Patterns Time Series and Anomaly Detection Model Optimization explores frameworks decision trees and ensemble methods to enhance performance and guide the selection of the most effective model ML Ethics addresses ethical considerations including fairness accountability transparency and ethics Model Deployment and Monitoring focuses on production deployment performance monitoring and adapting to model drift

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with easy to follow codes With the help of these real world projects you ll get a better understanding of the challenges faced when building data analysis pipelines and see how you can overcome them without compromising on the efficiency or accuracy of your systems The book covers some popularly used R packages such as dplyr ggplot2 RShiny and others and includes tips on using them effectively By the end of this book you ll have a better understanding of data analysis with R and be able to put your knowledge to practical use without any hassle Style and approach This book takes a unique learn as you do approach as you build on your understanding of data analysis progressively with each project This book is designed in a way that implementing each project will empower you with a unique skill set and enable you to implement the next project more confidently *,* *Forthcoming Books* Rose Arny,1996-06 Machine Learning with Python Cookbook Kyle Gallatin,Chris Albon,2023-07-27 This practical guide provides more than 200 self contained recipes to help you solve machine learning challenges you may encounter in your work If you re comfortable with Python and its libraries including pandas and scikit learn you ll be able to address specific problems from loading data to training models and leveraging neural networks Each recipe in this updated edition includes code that you can copy paste and run with a toy dataset to ensure that it works From there you can adapt these recipes according to your use case or application Recipes include a discussion that explains the solution and provides meaningful context Go beyond theory and concepts by learning the nuts and bolts you need to construct working machine learning applications You ll find recipes for Vectors matrices and arrays Working with data from CSV JSON SQL databases cloud storage and other sources Handling numerical and categorical data text images and dates and times Dimensionality reduction using feature extraction or feature selection Model evaluation and selection Linear and logical regression trees and forests and k nearest neighbors Supporting vector machines SVM na ve Bayes clustering and tree based models Saving loading and serving trained models from multiple frameworks **Practical Data Science Cookbook** Prabhanjan Tattar,Tony Ojeda,Sean Patrick Murphy,Benjamin Bengfort,Abhijit Dasgupta,2017 *Pandas 1. X Cookbook* Matt Harrison,Theodore Petrou,2020-02-27 Use the power of pandas to solve most complex scientific computing problems with ease Revised for pandas 1 x Key Features This is the first book on pandas 1 x Practical easy to implement recipes for quick solutions to common problems in data using pandas Master the fundamentals of pandas to quickly begin exploring any dataset Book Description 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 as one would do during an actual analysis This book guides you as if you were looking over the shoulder of an expert through situations that you are highly likely to encounter This new updated and revised edition provides 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 Many advanced recipes combine several different features across the pandas library to generate results What you will learn Master data exploration in pandas through dozens of practice problems Group aggregate transform reshape and filter data Merge data from different sources through pandas SQL like operations Create visualizations via pandas hooks to matplotlib and seaborn Use pandas time series functionality to perform powerful analyses Import clean and prepare real world datasets for machine learning Create workflows for processing big data that doesn t fit in memory Who this book is for This book is for Python developers data scientists engineers and analysts Pandas is the ideal tool for manipulating structured data with Python and this book provides ample instruction and examples Not only does it cover the basics required to be proficient but it goes into the details of idiomatic pandas **Time Series Analysis with Python Cookbook** Tarek A. Atwan,2022-06-30 Perform time series analysis and forecasting confidently with this Python code bank and reference manual Key Features Explore forecasting and anomaly detection techniques using statistical machine learning and deep learning algorithms Learn different techniques for evaluating diagnosing and optimizing your models Work with a variety of complex data with trends multiple seasonal patterns and irregularities Book DescriptionTime series data is everywhere available at a high frequency and volume It is complex and can contain noise irregularities and multiple patterns making it crucial to be well versed with the techniques covered in this book for data preparation analysis and forecasting This book covers practical techniques for working with time series data starting with ingesting time series data from various sources and formats whether in private cloud storage relational databases non relational databases or specialized time series databases such as InfluxDB Next you ll learn strategies for handling missing data dealing with time zones and custom business days and detecting anomalies using intuitive statistical methods followed by more advanced unsupervised ML models The book will also explore forecasting using classical statistical models such as Holt Winters SARIMA and VAR The recipes will present practical techniques for handling non stationary data using power transforms ACF and PACF plots and decomposing time series data with multiple seasonal patterns Later you ll work with ML and DL models using TensorFlow and PyTorch Finally you ll learn how to evaluate compare optimize models and more using the recipes covered in the book What you will learn Understand what makes time series data different from other data Apply various imputation and interpolation strategies for missing data Implement different models for univariate and multivariate time series Use different deep learning libraries such as TensorFlow Keras and PyTorch Plot interactive time series visualizations using hvPlot Explore state space models and the unobserved components model UCM Detect anomalies using statistical and machine learning methods Forecast complex time series with multiple seasonal patterns Who this book is for This book is for data analysts business analysts data scientists data engineers or Python developers who want practical Python recipes for time series analysis and forecasting techniques Fundamental knowledge of Python programming is required Although having a basic math and statistics background will be beneficial it is not necessary Prior experience working with time series data to solve business problems

will also help you to better utilize and apply the different recipes in this book   *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   *Pandas Cookbook* William Ayd,Matthew Harrison,2024-10-31 From fundamental techniques to advanced strategies for handling big data visualization

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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 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 FeaturesGet well versed with various data cleaning techniques to reveal key insightsManipulate data of different complexities to shape them into the right form as per your business needsClean monitor and validate large data volumes to diagnose problems before moving on to data analysisBook 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 learnFind out how to read and analyze data from a variety of sourcesProduce summaries of the attributes of data frames columns and rowsFilter data and select columns of interest that satisfy given criteriaAddress messy data issues including working with dates and missing valuesImprove your productivity in Python pandas by using method chainingUse visualizations to gain additional insights and identify potential data issuesEnhance your ability to learn what is going on in your dataBuild user defined functions and classes to automate data cleaningWho this book is for This book is for anyone looking for ways to handle messy duplicate and

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ForThis 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 SeabornIn DetailThis 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 approachThe 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 Visualization Cookbook* Igor Milovanović,2013-11-25 This book is written in a Cookbook style targeted towards an advanced audience It covers the advanced topics of data visualization in Python Python Data Visualization Cookbook is for developers that already know about Python programming in general If you have heard about data visualization but you don t know where to start then this book will guide you from the start and help you understand data data formats data visualization and how to use Python to visualize data You will need to know some general programming concepts and any kind of programming experience will be helpful but the code in this book is explained almost line by line You don t need maths for this book every concept that is introduced is thoroughly explained in plain English and references are available for further interest in the topic   *Scikit-learn Cookbook* Trent Hauck,2014 If you re a data scientist already familiar with Python but not Scikit Learn or are familiar with other programming languages like R and want to take the plunge with the gold standard of Python machine learning libraries then this is the book for you

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