



Quick answers to common problems

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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Python Data Science Cookbook By Gopi Subramanian

Taryn Voska



Python Data Science Cookbook By Gopi Subramanian:

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 **R**

Data Analysis Projects Gopi Subramanian,2017-11-17 Get valuable insights from your data by building data analysis systems from scratch with R About This Book A handy guide to take your understanding of data analysis with R to the next level Real world projects that focus on problems in finance network analysis social media and more From data manipulation to analysis to visualization in R this book will teach you everything you need to know about building end to end data analysis pipelines using R Who This Book Is For If you are looking for a book that takes you all the way through the practical application of advanced and effective analytics methodologies in R then this is the book for you A fundamental understanding of R and the basic concepts of data analysis is all you need to get started with this book What You Will Learn Build end to end predictive analytics systems in R Build an experimental design to gather your own data and conduct analysis Build a recommender system from scratch using different approaches Use and leverage RShiny to build reactive programming applications Build systems for varied domains including market research network analysis social media analysis and more Explore various R Packages such as RShiny ggplot recommenderlab dplyr and find out how to use them effectively Communicate modeling results using Shiny Dashboards Perform multi variate time series analysis prediction supplemented with sensitivity analysis and risk modeling In Detail R offers a large variety of packages and libraries for fast and accurate data analysis and visualization As a result it s one of the most popularly used languages by data scientists and analysts or anyone who wants to perform data analysis This book will demonstrate how you can put to use your existing knowledge of data analysis in R to build highly efficient end to end data analysis pipelines without any hassle You ll start by building a content based recommendation system followed by building a project on sentiment analysis with tweets You ll implement time series modeling for anomaly detection and understand cluster analysis of streaming data You ll work through projects on performing efficient market data research building recommendation systems and analyzing networks accurately all provided 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

Magento 2 Theme Design Fernando J Miguel,Richard Carter,2016-10-28 Create stunning and responsive Magento 2 themes for your business About This Book Realize the full potential of theme design in Magento 2 Design attractive themes for your e commerce store to make them stand out amongst the crowd Practical skills and examples ensure you can take what you ve learnt to your own projects limited only by your own creativity Who This Book Is For This

book is for web designers and developers with existing knowledge of CSS HTML and XML who wish to create themes for Magento 2 Existing Magento 1 x theme designers who now want to develop themes for Magento 2 will also find this book useful What You Will Learn Implement a local development Magento environment Understand the workings of the Magento theme structure Edit an existing Magento theme to satisfy your business needs Create print strategies for the Magento 2 0 theme Generate specific blocks to improve the Magento 2 0 theme Explore specific Magento programming Methods to improve the Magento 2 0 theme Customize the Magento 2 0 admin panel to create a new Magento 2 0 admin theme Build a Twitter module for Magento 2 0 and integrate Magento 2 0 with social bookmarking In Detail Magento is the e commerce software and platform trusted by the world s leading brands Using Magento s powerful theming engine you can control the look content and functionality and easily launch a flexible e commerce website However because of its powerful features developing Magento themes is easier said than done This book aims to leverage the enhancements to theme designing in Magento 2 to the fullest It will show you how to gear up the performance of your e commerce website We begin by introducing Magento 2 and its features along with implementing a local development Magento environment We then move on to discuss the concepts of the Magento theme structure such as templates inheritance customization and override Further on we explore the Magento UI Library which is a new feature available in Magento 2 0 We will create a new Magento 2 0 theme named MyCake Store using Magento Bootstrap from Maven E commerce and also create print strategies for the Magento 2 0 theme We will also create and customize a new theme proposal for the Magento admin panel At the end we will integrate Magento 2 0 to Twitter and integrate it with social bookmarking and finally deploy our new Magento 2 0 theme Style and approach This is a step by step guide to customizing the look and feel of your online store by creating stunning and responsive themes from scratch In addition to creating new themes the book will also offer guidance on customizing existing themes

, **Python Data Analysis Cookbook** Ivan Idris,2016-07-22 **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

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 [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 Description Time 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 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

PYTHON DATA SCIENCE From Beginner to Experts About Techniques of Data Mining, Big Data Analytics and Science, Python Programming and How to Use Them in Business Python School, 2021-05-17 55% OFF for Bookstores NOW at 36.95 instead of 49.95 Have you ever been thought what it would be like

if you dared to expand your python programming skills to include data science Or are you looking for a new job in the technological and scientific world Then keep reading because I have what you need Working with machine learning is something that a lot of different companies want to focus on now They like the idea of being able to get a system to learn while they are not there They like to provide a better kind of customer service than they could have before And they like all of the opportunities that are going to present themselves when it comes to this kind of programming And when they can provide it all and learn how to do all the different parts with the help of Python that can just make that much easier This guidebook has explored a lot of the different topics that can come up with this The purpose of the book is to help you to understand how to work with Python what is all available with Python and so much more Some of the different topics we will discuss in this guidebook to help you to get started with coding in Python Data Science will include Techniques of Algorithmic programming The Database Access with Python What Can I Do with GUI Programming Recent Advancements in Data Analysis Python Data Structures Numba Just in Time Python compiler Comparing Pipeline Data Models Is PODS Spatial the Right Solution Visualisation and Results Most Common Data Science Problems Linear Classifiers Setting Up PyCharm Data frames Why Python for Big Data Are you wondering if that your PC can be an algorithms machine Even if you have never heard that it is possible this book will deny it to you If you want to know how Scroll up and click the buy now button to get your copy

Python Cookbook Alex Martelli,David Ascher,2002 ThePython Cookbookis a collection of problems solutions and practical examples for Python programmers written by Python programmers Over the past year members of the Python community have contributed material to an online repository of Python recipes hosted by ActiveState This book contains the best of those recipes accompanied by overviews and background material by key Python figures The recipes in thePython Cookbookrange from simple tasks such as working with dictionaries and list comprehensions to entire modules that demonstrate templating systems and network monitoring This book contains over 200 recipes on the following topics Searching and sorting Manipulating text Working with files and the filesystem Object oriented programming Dealing with threads and processes System administration Interacting with databases Creating user interfaces Network and web programming Processing XML Distributed programming Debugging and testing Extending Python This book is a treasure trove of useful code for all Python programmers from novices to advanced practitioners with contributions from such Python luminaries as Guido Van Rossum David Ascher Tim Peters Paul Prescod Mark Hammond and Alex Martelli as well as over 100 other Python programmers The recipes highlight Python best practices and can be used directly in day to day programming tasks as a source of ideas or as a way to learn more about Python The recipes in thePython Cookbookwere edited by David Ascher who is on the board of the Python Software Foundation and is the co author ofLearning Python and Alex Martelli who is known for his numerous and exhaustive postings on the Python mailing list The book contains a foreword by Guido van Rossum the creator of Python **Python Data Science** Andrew Park,2020-11-14 If you want to learn more

about Data Science or how to master it with the Python Programming Language then keep reading Data Science is one of the biggest buzzwords in the business world nowadays Many businesses know the importance of collecting information but as they can collect so much data in a short period the real question is what is the next step Data Science includes all the different steps that you take with the data collecting and cleaning them if they come from more than one source analyzing them applying Machine Learning algorithms and models and then presenting your findings from the analysis with some good Data Visualizations And this is what you will learn in Python Data Science You will learn about the main steps that are needed to correctly implement Data Science techniques and the algorithms to help you sort through the data and see some amazing results Some of the topics that we will discuss inside include What data science is all about and why so many companies are using it to give them a competitive edge Why Python and how to use it to implement Data Science What is the intersection between Machine Learning and Data Science and how to combine them The main Data Structures Object Oriented Python with practical codes and exercises to use Python Functions and Modules in Python The 7 most important algorithms and models in Data Science Data Aggregation and Group Operations 9 important Data Mining techniques in Data Science Interaction with databases and data in the cloud And Much More Where most books only focus on how collecting and cleaning the data this book goes further providing guidance on how to perform a proper analysis in order to extract precious information that may be vital for a business Don't miss the opportunity to learn more about these topics Even if you have never implemented Data Science techniques learning them is easier than it looks You just need the right guidance And Python Data Science provides all the knowledge you need in a simple and practical way Regardless of your previous experience you will learn the techniques to manipulate and process datasets the principles of Python programming and its most important real world applications Would You Like To Know More Scroll Up And Click The BUY NOW Button To Get Your Copy Now

Python Data Science Andrew Park, 2020-11-14 If you want to learn more about Data Science or how to master it with the Python Programming Language then keep reading Data Science is one of the biggest buzzwords in the business world nowadays Many businesses know the importance of collecting information but as they can collect so much data in a short period the real question is what is the next step Data Science includes all the different steps that you take with the data collecting and cleaning them if they come from more than one source analyzing them applying Machine Learning algorithms and models and then presenting your findings from the analysis with some good Data Visualizations And this is what you will learn in Python Data Science You will learn about the main steps that are needed to correctly implement Data Science techniques and the algorithms to help you sort through the data and see some amazing results Some of the topics that we will discuss inside include What data science is all about and why so many companies are using it to give them a competitive edge Why Python and how to use it to implement Data Science What is the intersection between Machine Learning and Data Science and how to combine them The main Data Structures Object Oriented Python with practical codes

and exercises to use Python Functions and Modules in Python The 7 most important algorithms and models in Data Science Data Aggregation and Group Operations 9 important Data Mining techniques in Data Science Interaction with databases and data in the cloud And Much More Where most books only focus on how collecting and cleaning the data this book goes further providing guidance on how to perform a proper analysis in order to extract precious information that may be vital for a business Don t miss the opportunity to learn more about these topics Even if you have never implemented Data Science techniques learning them is easier than it looks You just need the right guidance And Python Data Science provides all the knowledge you need in a simple and practical way Regardless of your previous experience you will learn the techniques to manipulate and process datasets the principles of Python programming and its most important real world applications Would You Like To Know More Scroll Up And Click The BUY NOW Button To Get Your Copy Now **Python Data Science** Andrew Park,2019-12-17 If you want to learn more about Data Science or how to master it with the Python Programming Language then keep reading Data Science is one of the biggest buzzwords in the business world nowadays Many businesses know the importance of collecting information but as they can collect so much data in a short period the real question is what is the next step Data Science includes all the different steps that you take with the data collecting and cleaning them if they come from more than one source analyzing them applying Machine Learning algorithms and models and then presenting your findings from the analysis with some good Data Visualizations And this is what you will learn in Python Data Science You will learn about the main steps that are needed to correctly implement Data Science techniques and the algorithms to help you sort through the data and see some amazing results Some of the topics that we will discuss inside include What data science is all about and why so many companies are using it to give them a competitive edge Why Python and how to use it to implement Data Science What is the intersection between Machine Learning and Data Science and how to combine them The main Data Structures Object Oriented Python with practical codes and exercises to use Python Functions and Modules in Python The 7 most important algorithms and models in Data Science Data Aggregation and Group Operations 9 important Data Mining techniques in Data Science Interaction with databases and data in the cloud Where most books only focus on how collecting and cleaning the data this book goes further providing guidance on how to perform a proper analysis in order to extract precious information that may be vital for a business Don t miss the opportunity to learn more about these topics Even if you have never implemented Data Science techniques learning them is easier than it looks You just need the right guidance And Python Data Science provides all the knowledge you need in a simple and practical way Regardless of your previous experience you will learn the techniques to manipulate and process datasets the principles of Python programming and its most important real world applications Would You Like To Know More Scroll to the top of the page and click the Buy now button to get your copy now *Python Machine Learning Cookbook* Giuseppe Ciaburro,Prateek Joshi,2019-03-30 Discover powerful ways to effectively solve real world machine learning problems using key libraries including scikit learn

TensorFlow and PyTorch Key Features Learn and implement machine learning algorithms in a variety of real life scenarios Cover a range of tasks catering to supervised unsupervised and reinforcement learning techniques Find easy to follow code solutions for tackling common and not so common challenges

Book Description This eagerly anticipated second edition of the popular Python Machine Learning Cookbook will enable you to adopt a fresh approach to dealing with real world machine learning and deep learning tasks With the help of over 100 recipes you will learn to build powerful machine learning applications using modern libraries from the Python ecosystem The book will also guide you on how to implement various machine learning algorithms for classification clustering and recommendation engines using a recipe based approach With emphasis on practical solutions dedicated sections in the book will help you to apply supervised and unsupervised learning techniques to real world problems Toward the concluding chapters you will get to grips with recipes that teach you advanced techniques including reinforcement learning deep neural networks and automated machine learning By the end of this book you will be equipped with the skills you need to apply machine learning techniques and leverage the full capabilities of the Python ecosystem through real world examples

What you will learn Use predictive modeling and apply it to real world problems Explore data visualization techniques to interact with your data Learn how to build a recommendation engine Understand how to interact with text data and build models to analyze it Work with speech data and recognize spoken words using Hidden Markov Models Get well versed with reinforcement learning automated ML and transfer learning Work with image data and build systems for image recognition and biometric face recognition Use deep neural networks to build an optical character recognition system

Who this book is for This book is for data scientists machine learning developers deep learning enthusiasts and Python programmers who want to solve real world challenges using machine learning techniques and algorithms If you are facing challenges at work and want ready to use code solutions to cover key tasks in machine learning and the deep learning domain then this book is what you need

Familiarity with Python programming and machine learning concepts will be useful

[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 Cookbook David Beazley,Brian K. Jones,2013-05-10 If you need help writing programs in Python 3 or want to update older Python 2 code this book is just the ticket Packed with practical recipes written and tested with Python 3 3 this unique cookbook is for experienced Python programmers who want to focus on modern tools and idioms Inside you ll find complete recipes for more than a dozen topics covering the core Python language as well as tasks common to a wide variety of application domains Each recipe contains code samples you can use in your projects right away along with a discussion about how and why the solution works Topics include Data Structures and Algorithms Strings and Text Numbers Dates and Times Iterators and Generators Files and I O Data Encoding and Processing Functions Classes and Objects Metaprogramming Modules and Packages Network and Web Programming Concurrency Utility Scripting and System Administration Testing Debugging and Exceptions C Extensions

[Machine Learning Cookbook with Python](#) Rehan Guha,2020-11-12 A Cookbook that will help you implement Machine Learning algorithms and techniques by building real world projects KEY FEATURES Learn how to handle an entire Machine Learning Pipeline supported with adequate mathematics Create Predictive Models and choose the right model for various types of Datasets

Learn the art of tuning a model to improve accuracy as per Business requirements Get familiar with concepts related to Data Analytics with Visualization Data Science and Machine Learning DESCRIPTION Machine Learning does not have to be intimidating at all This book focuses on the concepts of Machine Learning and Data Analytics with mathematical explanations and programming examples All the codes are written in Python as it is one of the most popular programming languages used for Data Science and Machine Learning Here I have leveraged multiple libraries like NumPy Pandas scikit learn etc to ease our task and not reinvent the wheel There are five projects in total each addressing a unique problem With the recipes in this cookbook one will learn how to solve Machine Learning problems for real time data and perform Data Analysis and Analytics Classification and beyond The datasets used are also unique and will help one to think understand the problem and proceed towards the goal The book is not saturated with Mathematics but mostly all the Mathematical concepts are covered for the important topics Every chapter typically starts with some theory and prerequisites and then it gradually dives into the implementation of the same concept using Python keeping a project in the background WHAT WILL YOU LEARN Understand the working of the O S E M N framework in Data Science Get familiar with the end to end implementation of Machine Learning Pipeline Learn how to implement Machine Learning algorithms and concepts using Python Learn how to build a Predictive Model for a Business case WHO THIS BOOK IS FOR This cookbook is meant for anybody who is passionate enough to get into the World of Machine Learning and has a preliminary understanding of the Basics of Linear Algebra Calculus Probability and Statistics This book also serves as a reference guidebook for intermediate Machine Learning practitioners TABLE OF CONTENTS 1 Boston Crime 2 World Happiness Report 3 Iris Species 4 Credit Card Fraud Detection 5 Heart Disease UCI [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 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

As recognized, adventure as capably as experience very nearly lesson, amusement, as without difficulty as contract can be gotten by just checking out a books **Python Data Science Cookbook By Gopi Subramanian** afterward it is not directly done, you could take on even more approximately this life, in the region of the world.

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