Python Data Science Cookbook By Gopi Subramanian

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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

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

over 85 recipes to help you complete real world data science projects in r and pythonabout 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 conceptswho this book is forif 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 forestin detailas 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 approachthis 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

a cookbook that will help you implement machine learning algorithms and techniques by building real world projects Ê key featuresÊ 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 Ê Ê what will you learn understand the working of the o s e m n framework in data science Ê 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 forÊ 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 Ê table of contents 1 boston crime 2 world happiness report 3 iris species 4 credit card fraud detection 5 heart disease uci

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 naäve bayes clustering and tree based models saving loading and serving trained models from multiple frameworks

perform time series analysis and forecasting confidently with this python code bank and reference manual access exclusive github bonus chapters and hands on recipes covering python setup probabilistic deep learning forecasts frequency domain analysis large scale data handling databases influxdb and advanced visualizations purchase of the print or kindle book includes a free pdf ebook key features explore up to date 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 descriptionto use time series data to your advantage you need to master data preparation analysis and forecasting this fully refreshed second edition helps you unlock insights from time series data with new chapters on probabilistic models signal processing techniques and new content on transformers you ll work with the latest releases of popular libraries like pandas polars sktime stats models stats forecast

darts and prophet through up to date examples you ll hit the ground running by ingesting time series data from various sources and formats and learn strategies for handling missing data dealing with time zones and custom business days and detecting anomalies using intuitive statistical methods through detailed instructions you ll explore forecasting using classical statistical models such as holt winters sarima and var and learn practical techniques for handling non stationary data using power transforms acf and pacf plots and decomposing time series data with seasonal patterns the recipes then level up to cover more advanced topics such as building ml and dl models using tensorflow and pytorch and applying probabilistic modeling techniques in this part you ll also be able to evaluate compare and optimize models finishing with a strong command of wrangling data with python what you will learn understand what makes time series data different from other data apply imputation and interpolation strategies to handle missing data implement an array of models for univariate and multivariate time series 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 use conformal prediction for constructing prediction intervals for time series who this book is for this book is for data analysts business analysts data scientists data engineers and python developers who want to learn time series analysis and forecasting techniques step by step through practical python recipes to get the most out of this book you ll need fundamental python programming knowledge prior experience working with time series data to solve business problems will help you to better utilize and apply the recipes more quickly

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 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

a step by step solution based guide to preparing building training and deploying high quality machine learning models with amazon sagemaker key featuresperform ml experiments with built in and custom algorithms in sagemakerexplore proven solutions when working with tensorflow pytorch hugging face transformers and scikit learnuse the different features and capabilities of sagemaker to automate relevant ml processesbook description amazon sagemaker is a fully managed machine learning ml service that helps data scientists and ml practitioners manage ml experiments in this book you ll use the different capabilities and features of amazon sagemaker to solve relevant data science and ml problems this step by step guide features 80 proven recipes designed to give you the hands on machine learning experience needed to contribute to real world experiments and projects you ll cover the algorithms and techniques that are commonly used when training and deploying nlp time series forecasting and computer vision models to solve ml problems you ll explore various solutions for working with deep learning libraries and frameworks such as tensorflow pytorch and hugging face transformers in amazon sagemaker you ll also learn how to use sagemaker clarify sagemaker model monitor sagemaker debugger and sagemaker experiments to debug manage and monitor multiple ml experiments and deployments moreover you ll have a better understanding of how sagemaker feature store autopilot and pipelines can meet the specific needs of data science teams by the end of this book you ll be able to combine the different solutions you ve learned as building blocks to solve real world ml problems what you will learntrain and deploy nlp time series forecasting and computer vision models to solve different business problemspush the limits of customization in sagemaker using custom container imagesuse automl capabilities with sagemaker autopilot to create high quality modelswork with effective data analysis and preparation techniquesexplore solutions for debugging and managing ml experiments and deploymentsdeal with bias detection and ml explainability requirements using sagemaker clarifyautomate intermediate and complex deployments and workflows using a variety of solutionswho this book is for this book is for developers data scientists and machine learning practitioners interested in using amazon sagemaker to build analyze and deploy machine learning models with 80 step by step recipes all you need is an aws account to get things running prior knowledge of aws machine learning and the python programming language will help you to grasp the concepts covered in this book more effectively

recipes to help you overcome your data science hurdles using java about this book this book provides modern recipes in small steps to help an apprentice cook become a master chef in data science use these recipes to obtain clean analyze and learn from your data learn how to get your data science applications to production and enterprise environments effortlessly who this book is for this book is for java developers who are familiar with the fundamentals of data science and want to improve their skills to become a pro what you will learn find out how to clean and make datasets ready so you can acquire actual insights by removing noise and outliers develop the skills to use modern machine learning techniques to retrieve information and transform data to knowledge retrieve information from large

amount of data in text format familiarize yourself with cutting edge techniques to store and search large volumes of data and retrieve information from large amounts of data in text format develop basic skills to apply big data and deep learning technologies on large volumes of data evolve your data visualization skills and gain valuable insights from your data get to know a step by step formula to develop an industry standard large scale real life data product gain the skills to visualize data and interact with users through data insights in detail if you are looking to build data science models that are good for production java has come to the rescue with the aid of strong libraries such as mllib weka dl4j and more you can efficiently perform all the data science tasks you need to this unique book provides modern recipes to solve your common and not so common data science related problems we start with recipes to help you obtain clean index and search data then you will learn a variety of techniques to analyze learn from and retrieve information from data you will also understand how to handle big data learn deeply from data and visualize data finally you will work through unique recipes that solve your problems while taking data science to production writing distributed data science applications and much more things that will come in handy at work style and approach this book contains short yet very effective recipes to solve most common problems some recipes cater to very specific rare pain points the recipes cover different data sets and work very closely to real production environments

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

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^2 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

discover powerful ways to effectively solve real world machine learning problems using key libraries including scikit learn tensorflow and pytorch key featureslearn and implement machine learning algorithms in a variety of real life scenarioscover a range of tasks catering to supervised unsupervised and reinforcement learning techniquesfind easy to follow code solutions for tackling common and not so common challengesbook 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 learnuse predictive modeling and apply it to real world problemsexplore data visualization techniques to interact with your datalearn how to build a recommendation engineunderstand how to interact with text data and build models to analyze itwork with speech data and recognize spoken words using hidden markov modelsget well versed with reinforcement learning automated ml and transfer learningwork with image data and build systems for image recognition and biometric face recognitionuse deep neural networks to build an optical character recognition systemwho 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

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

this book is ideal for those who are already exposed to r but have not yet used it extensively for data analytics and are seeking to get up and running quickly for analytics tasks this book will help people who aspire to enhance their skills in any of the following ways 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

this book offers an introduction and hands on examples that demonstrate how learning analytics la can be used to enhance digital learning teaching and training at various levels while the majority of existing literature on the subject focuses on its application at large corporations this book develops and showcases approaches that bring la closer to smaller organizations and to educational institutions that lack sufficient resources to implement a full fledged la infrastructure in closing the book introduces a set of software tools for data analytics and visualization and explains how they can be employed in several la scenarios

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

over 95 hands on recipes to leverage the power of pandas for efficient scientific computation and data analysisabout this book use the power of pandas to solve most

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