Text Analytics With Python A Practical Real World Approach

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the topics that we will discuss inside include what data analysis is all about and why businesses are investing in this sector the 5 steps of a data analysis pandas jupyter and pytorch the 7 python libraries that make python one of the best choices for data analysis neural network how data visualization and matplotlib can help you to understand the data you are working with some of the main industries that are using data to improve their business with 14 real world applications and much more while most books focus on how to implement advanced predictive models this book takes the time to explain the basic concepts and all the necessary steps to correctly implement data analysis including data visualization and providing practical examples and simple coding scripts don t miss the opportunity to learn more about these topics even if you never used data analysis learning it is easier than it looks you just need the right guidance this practical guide provides all the knowledge you need in a simple and practical way regardless of your previous experience you will learn the steps of data analysis how to implement them in python and the most important real world applications would you like to know more buy it now and let your customers get addicted to this amazing book

data analytics with python data is the foundation of this digital age that we live in with this book you are going to learn how to organize and analyze data and how to interpret vast sources of information this book covers various topics on data analytics such as data analytics applications data analytics process using python for data analytics python libraries for data analytics and many other that will help you kick start your data analytics journey from the very beginning in this book you are going to learn how to use python its tools in order to interpret data and examine those interesting data trends and information which are important in predicting the future whether you are dealing with some medical data sales data web page data you can use python in order to interpret data analyze it and obtain this valuable information you can also use this data for creating data analytics models and predictions here is a brief preview of what you ll learn in this book data analytics applications data analytics process how to install and run python python data structures and python libraries python conditional construct and iteration data exploration using pandas pandas series and dataframes data munging and distribution analysis carrying out binary operations data manipulation and categorical variable analysis how to build a predictive model and of course much much more get this book now and learn more about data analytics with python

unlock the programming skills you need to prepare for a lucrative career in data science with this comprehensive introduction to python programming for data analytics are you completely new to programming and want to learn how to code but don t know where to begin are you looking to upgrade your data wrangling skills to future proof your career and break into data science and analytics if you answered yes to any of the questions above then keep reading data analysis has become a huge industry with tons of career potential and will remain relevant far into the foreseeable future with the exponential growth and explosion of new data and the focus on using data to improve customer experiences and carry out research data analysts will be needed to process and make sense of large amounts of information with python being the language of choice because of its versatility in this guide you re going to be shown everything you need to break into the world of data analysis with python filled with tutorials for powerful libraries and practical hands on exercises you re going to learn how to aggregate munge analyze and visualize data in python here s a sample of what you re going to discover in python data analytics why python is the perfect language to learn if you want to break into big data and data analytics core statistical models and computation methods you

need to know about as a budding data analyst how to master the csv library for reading writing and handling tabular data using the xlrd library to extract data from microsoft excel files how to convert text to speech using the powerful win32 com library how to use the numpy library to carry out fundamental and basic scientific and technical computing how to use the scipy library to carry out advanced scientific and highly technical computing surefire ways to manipulate the easy to use data structures of the pandas framework for high performance data analysis how to plot complex data create figures and visualize data using the python matplotlib library and tons more if you re completely new to programming and have never written a single line of code but want to get started this guide is perfect for as a crash guide to getting up to speed with programming in general whether you re a programmer looking to switch into an exciting new field with lots of potential for the future or a regular data analyst looking to acquire the skills needed to remain relevant in a fast changing world this guide will teach you how to master powerful libraries used in the real world by experienced data scientists

learn data analysis using python with this easy to follow beginners guide it covers all aspects of processing manipulation crunching and cleaning data using python programming language it has been designed to prepare you for analyzing data creating relevant data visualizations carrying out statistical analyses for large data estimating the upcoming future trends by using current data and lots more this book will help you learn the various parts of python programming language its libraries and scientific computation using python learn to practically solve extensive sets of problems related to data analysis python is on par with other programming languages like matlab stata r sas and others when it comes to data analysis and data visualization python s rich set of libraries mainly pandas has grown rapidly in recent years and is considered one of the best among its competitors for tasks related to data manipulation when combined with python s own internal solidity as a general purpose programming language we can say that it is an excellent choice to build data centric web applications you will learn how to use the essential python libraries required for data analysis like numpy pandas matplotlib ipython and scipy each one of them performs a particular functionality for data analysis and you will be surprised at how easy it is so what are you waiting for now is your chance to learn hands on python with ease click the buy now button to get started on your python journey

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if you are a student or a professional looking for more technical skills or if you are simply curious about the most up to date data analysis techniques and their powerful applications then this is definitely the book for you learning all of the required skills to master data science and machine learning could certainly be challenging but in this book jason callaway has condensed all of the knowledge you need into a clear and beginner friendly introduction with practical examples detailed explanations and tips and tricks from his experience through his revolutionary and systematic approach you can learn techniques to manipulate and process datasets the principles of python programming and their real world applications regardless of your previous experience here s just a tiny fraction of what you will discover what data science is and why it has become fundamental in hundreds of business and technological applications the basics of python programming essential python libraries such as numpy pandas and matplotlib all of the most effective computational methods for data analysis data visualization tools and techniques how to build statistical and machine learning models even if you are brand new to programming the future of artificial intelligence how to build neural networks with python step by step exercises practical examples and tips and tricks are you ready to develop a successful career in the growing industry of data science

data science and analytics with python is designed for practitioners in data science and data analytics in both academic and business environments the aim is to present the reader with the main concepts used in data science using tools developed in python such as scikit learn pandas numpy and others the use of python is of particular interest given its recent popularity in the data science community the book can be used by seasoned programmers and newcomers alike the book is organized in a way that individual chapters are sufficiently independent from each other so that the reader is comfortable using the contents as a reference the book discusses what data science and analytics are from the point of view of the process and results obtained important features of python are also covered including a python primer the basic elements of machine learning pattern recognition and artificial intelligence that underpin the algorithms and implementations used in the rest of the book also appear in the first part of the book regression analysis using python clustering techniques and classification algorithms are covered in the second part of the book hierarchical clustering decision trees and ensemble techniques are also explored along with dimensionality reduction techniques and recommendation systems the support vector machine algorithm and the kernel trick are discussed in the last part of the book about the author dr jesús rogel salazar is a lead data scientist with experience in the field working for companies such as akqa ibm data science studio dow jones and others he is a visiting researcher at the department of physics at imperial college london uk and a member of the school of physics astronomy and mathematics at the university of hertfordshire uk he obtained his doctorate in physics at imperial college london for work on quantum atom optics and ultra cold matter he

has held a position as senior lecturer in mathematics as well as a consultant in the financial industry since 2006 he is the author of the book essential matlab and octave also published by crc press his interests include mathematical modelling data science and optimization in a wide range of applications including optics quantum mechanics data journalism and finance

step by step guide to build high performing predictive applications key featuresuse the python data analytics ecosystem to implement end to end predictive analytics projectsexplore advanced predictive modeling algorithms with an emphasis on theory with intuitive explanationslearn to deploy a predictive model s results as an interactive applicationbook description predictive analytics is an applied field that employs a variety of quantitative methods using data to make predictions it involves much more than just throwing data onto a computer to build a model this book provides practical coverage to help you understand the most important concepts of predictive analytics using practical step by step examples we build predictive analytics solutions while using cutting edge python tools and packages the book s step by step approach starts by defining the problem and moves on to identifying relevant data we will also be performing data preparation exploring and visualizing relationships building models tuning evaluating and deploying model each stage has relevant practical examples and efficient python code you will work with models such as knn random forests and neural networks using the most important libraries in python s data science stack numpy pandas matplotlib seaborn keras dash and so on in addition to hands on code examples you will find intuitive explanations of the inner workings of the main techniques and algorithms used in predictive analytics by the end of this book you will be all set to build high performance predictive analytics solutions using python programming what you will learnget to grips with the main concepts and principles of predictive analyticslearn about the stages involved in producing complete predictive analytics solutionsunderstand how to define a problem propose a solution and prepare a datasetuse visualizations to explore relationships and gain insights into the datasetlearn to build regression and classification models using scikit learnuse keras to build powerful neural network models that produce accurate predictionslearn to serve a model s predictions as a web applicationwho this book is for this book is for data analysts data scientists data engineers and python developers who want to learn about predictive modeling and would like to implement predictive analytics solutions using python s data stack people from other backgrounds who would like to enter this exciting field will greatly benefit from reading this book all you need is to be proficient in python programming and have a basic understanding of statistics and college level algebra

unlock the power of data analytics in finance with this comprehensive guide data analytics for finance using python is your key to unlocking the secrets of the financial markets in this book you ll discover how to harness the latest data analytics techniques including machine learning and inferential statistics to make informed investment decisions and drive business success with a focus on practical application this book takes you on a journey from the basics of data preprocessing and visualization to advanced modeling techniques for stock price prediction through real world case studies and examples you ll learn how to uncover hidden patterns and trends in financial data build predictive models that drive investment decisions optimize portfolio performance using data driven insights stay ahead of the competition with cutting edge data analytics techniques whether you re a finance professional seeking to enhance your data analytics skills or a researcher looking to advance the field of finance through data driven insights this book is an essential resource dive into the world of data analytics in finance and discover the power to make informed decisions drive business success and stay ahead of the

curve this book will be helpful for students researchers and users of machine learning and financial tools in the disciplines of commerce management and economics

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model and of course much much more natural language processing with python this book is a perfect beginner s guide to natural language processing it is offering an easy to understand guide to implementing nlp techniques using python natural language processing has been around for more than fifty years but just recently with greater amounts of data present and better computational powers it has gained a greater popularity given the importance of data there is no wonder why natural language processing is on the rise if you are interested in learning more this book will serve as your best companion on this journey introducing you to this challenging yet extremely engaging world of automatic manipulation of our human language it covers all the basics you need to know before you dive deeper into nlp and solving more complex nlp tasks in python here is a preview of what you ll learn here the main challenges of natural language processing the history of natural language processing how natural langauge processing actually works the main natural language processing applications text preprocessing and noise removal feature engineering and syntactic parsing part of speech tagging and named entity extraction topic modeling and word embedding text classification problems working with text data using nltk text summarization and sentiment analysis and much much more get this book bundle now and save money

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text analytics with python text analytics is all about obtaining relevant and useful information from some unstructured data text analytics techniques can be of great importance and can provide amazing help for various organizations that aim to derive some potentially valuable business insights from an amazingly large collection of text based content like social media streams emails or word documents sure text analytics using natural language processing machine learning and statistical modeling can be very challenging since human language is commonly inconsistent it contains various ambiguities mainly caused by inconsistent

semantics and syntax fortunately text analytics software can easily help you by transposing phrases and words contained in unstructured data into some numerical values that you later link with structured data contained in data set it is more than apparent that major enterprises are increasingly and rapidly turning to text analytics techniques in order to improve their businesses as well as overall customer satisfaction we are witnessing that amazing variety and volume when it comes to data generated across different feedback channels which continues to grow and expand providing various businesses with a wealth of valuable information regarding their customers it is more than apparent that sifting through all available content would be amazingly time consuming to be done manually however understanding those insights held in data is more than critical when it comes to getting an accurate view of the customer s voice we are also witnessing the next chapter of text analytics approach since it s already developing that solid ground it will also continue to be among other technical necessities today and into the future in order to keep up with the future embark on your own text analytics journey having this book by your side as your best companion in this book ou will learn text analytics process how to build a corpus and analyze sentiment named entity extraction with groningen meaning bank corpus how to train your system getting started with nltk how to search syntax and tokenize sentences automatic text summarization stemming word and topic modeling with nltk using scikit learn for text classification part of speech tagging and pos tagging models in nltk and much much more get this book now and learn more about text analytics with python

understand advanced data analytics concepts such as time series and principal component analysis with etl supervised learning and pyspark using python this book covers architectural patterns in data analytics text and image classification optimization techniques natural language processing and computer vision in the cloud environment generic design patterns in python programming is clearly explained emphasizing architectural practices such as hot potato anti patterns you ll review recent advances in databases such as neo4j elasticsearch and mongodb you ll then study feature engineering in images and texts with implementing business logic and see how to build machine learning and deep learning models using transfer learning advanced analytics with python 2nd edition features a chapter on clustering with a neural network regularization techniques and algorithmic design patterns in data analytics with reinforcement learning finally the recommender system in pyspark explains how to optimize models for a specific application what you ll learn build intelligent systems for enterprise review time series analysis classifications regression and clustering explore supervised learning unsupervised learning reinforcement learning and transfer learning use cloud platforms like gcp and aws in data analytics understand covers design patterns in python who this book is for data scientists and software developers interested in the field of data analytics

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