Learning pandas

Get to grips with pandas—a versatile and high-performance
Python library for data manipulation, analysis, and discovery

Michael Heydt

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Learning Pandas Python Data Discovery And Analysis Made Easy

Michael Heydt

Learning Pandas Python Data Discovery And Analysis Made Easy:

    <u>Machine Learning Algorithms</u> Giuseppe Bonaccorso,2018-08-30 An easy to follow step by step guide for getting to grips with the real world application of machine learning algorithms Key Features Explore statistics and complex mathematics for data intensive applications Discover new developments in EM algorithm PCA and bayesian regression Study patterns and make predictions across various datasets Book Description Machine learning has gained tremendous popularity for its powerful and fast predictions with large datasets However the true forces behind its powerful output are the complex algorithms involving substantial statistical analysis that churn large datasets and generate substantial insight This second edition of Machine Learning Algorithms walks you through prominent development outcomes that have taken place relating to machine learning algorithms which constitute major contributions to the machine learning process and help you to strengthen and master statistical interpretation across the areas of supervised semi supervised and reinforcement learning Once the core concepts of an algorithm have been covered you ll explore real world examples based on the most diffused libraries such as scikit learn NLTK TensorFlow and Keras You will discover new topics such as principal component analysis PCA independent component analysis ICA Bayesian regression discriminant analysis advanced clustering and gaussian mixture By the end of this book you will have studied machine learning algorithms and be able to put them into production to make your machine learning applications more innovative What you will learn Study feature selection and the feature engineering process Assess performance and error trade offs for linear regression Build a data model and understand how it works by using different types of algorithm Learn to tune the parameters of Support Vector Machines SVM Explore the concept of natural language processing NLP and recommendation systems Create a machine learning architecture from scratch Who this book is for Machine Learning Algorithms is for you if you are a machine learning engineer data engineer or junior data scientist who wants to advance in the field of predictive analytics and machine learning Familiarity with R and Python will be an added advantage for getting the best from this book 　　機器學習演算法(第二版) Giuseppe Bonaccorso,2017-12-06 logistic SVM k means TensorFlow SVM GOTOP Information Inc 　　<u>Building AI Driven Marketing Capabilities</u> Neha Zaidi,Mohit Maurya,Simon Grima,Pallavi Tyagi,2023-12-28 This book provides insight into technologies that offer competitive advantage in marketing These technologies can help us with describing and predicting customer behavior with the help of analytics designing of radical products creating of meaningful value optimization of distribution informing and promoting solutions and making marketing more effective overall by aligning marketing with business goals A range of technologies such as analytics big data artificial intelligence IoT machine learning are expected to transform future businesses Understanding customer needs matching them to solutions and delivering value can all be dramatically optimized with the help of technology Businesses need to realize that AI has already made inroads in marketing and can be expected to wield its influence across functional areas in the foreseeable future The business world is headed towards acceptance of technology to

synthesize knowledge by interpreting diverse information and facilitating decision making This book is an attempt to reflect deployment of technologies across businesses and sectors As the functional discipline comes together harnessing a gamut of technologies becomes indispensable to deliver a superior customer experience and driving profits Marketers should thus adopt the concepts of openness convergence and creation of value through new emerging technologies A resultant hyper connected market will thus have to adopt innovative changes in its existing processes and services The proposed book offers its readers an insight into technological interventions in various aspects of marketing domain From understanding various technologies as an enabler to marketing efforts and its impact on decision making and mapping of various facets of customer experience this book is recommended for marketers and learners to understand the advantages of using technology What You Will Learn Thedevelopments and applications of Artificial Intelligence in marketing The precise practical framework necessary to discover utilize and embrace AI potential to optimize the outcomes for company growth Automation and optimization of media planning through AI Who This Book is For The book is designed for marketers academicians business professionals data scientists practitioners and researchers   **Learning pandas** Michael Heydt,2015-04-16 If you are a Python programmer who wants to get started with performing data analysis using pandas and Python this is the book for you Some experience with statistical analysis would be helpful but is not mandatory   *Learning Pandas - Second Edition* Michael Heydt,2017-06-30 Get to grips with pandas a versatile and high performance Python library for data manipulation analysis and discoveryAbout This Book Get comfortable using pandas and Python as an effective data exploration and analysis tool Explore pandas through a framework of data analysis with an explanation of how pandas is well suited for the various stages in a data analysis process A comprehensive guide to pandas with many of clear and practical examples to help you get up and using pandasWho This Book Is ForThis book is ideal for data scientists data analysts Python programmers who want to plunge into data analysis using pandas and anyone with a curiosity about analyzing data Some knowledge of statistics and programming will be helpful to get the most out of this book but not strictly required Prior exposure to pandas is also not required What You Will Learn Understand how data analysts and scientists think about of the processes of gathering and understanding data Learn how pandas can be used to support the end to end process of data analysis Use pandas Series and DataFrame objects to represent single and multivariate data Slicing and dicing data with pandas as well as combining grouping and aggregating data from multiple sources How to access data from external sources such as files databases and web services Represent and manipulate time series data and the many of the intricacies involved with this type of data How to visualize statistical information How to use pandas to solve several common data representation and analysis problems within financeIn DetailYou will learn how to use pandas to perform data analysis in Python You will start with an overview of data analysis and iteratively progress from modeling data to accessing data from remote sources performing numeric and statistical analysis through indexing and performing aggregate analysis and finally to visualizing

statistical data and applying pandas to finance With the knowledge you gain from this book you will quickly learn pandas and how it can empower you in the exciting world of data manipulation analysis and science Style and approach Step by step instruction on using pandas within an end to end framework of performing data analysis Practical demonstration of using Python and pandas using interactive and incremental examples <u>Python for Data Analysis</u> Brady Ellison, Ready to learn Data Science through Python language Python for Data Analysis is a step by step guide for beginners and dabblers alike This book is designed to offer working knowledge of Python and data science and some of the tools required to apply that knowledge It s possible that you have little experience with or knowledge of data analysis and are interested in it You might have some experience in coding You may have worked with data before and want to use Python We have made this book in a way that will be helpful to all these groups and more besides in varying ways This can serve as an introduction to the most current tools and functions of those tools used by data scientists In this book You will learn Data Science Analysis and its applications IPython and Jupyter an introduction to the basic tools and how to navigate and use them You will also learn about its importance in a data scientist s ecosystem Pandas a powerful data management Python library that lets you do interesting things with data You will learn all the basics you need to get started NumPy a powerful numerical library for Python You will learn more about its advantages Get your copy now **Hands-On Data Analysis with Pandas** Stefanie Molin,2021-04-29 Get to grips with pandas by working with real datasets and master data discovery data manipulation data preparation and handling data for analytical tasks Key Features Perform efficient data analysis and manipulation tasks using pandas 1 x Apply pandas to different real world domains with the help of step by step examples Make the most of pandas as an effective data exploration tool Book DescriptionExtracting valuable business insights is no longer a nice to have but an essential skill for anyone who handles data in their enterprise Hands On Data Analysis with Pandas is here to help beginners and those who are migrating their skills into data science get up to speed in no time This book will show you how to analyze your data get started with machine learning and work effectively with the Python libraries often used for data science such as pandas NumPy matplotlib seaborn and scikit learn Using real world datasets you will learn how to use the pandas library to perform data wrangling to reshape clean and aggregate your data Then you will learn how to conduct exploratory data analysis by calculating summary statistics and visualizing the data to find patterns In the concluding chapters you will explore some applications of anomaly detection regression clustering and classification using scikit learn to make predictions based on past data This updated edition will equip you with the skills you need to use pandas 1 x to efficiently perform various data manipulation tasks reliably reproduce analyses and visualize your data for effective decision making valuable knowledge that can be applied across multiple domains What you will learn Understand how data analysts and scientists gather and analyze data Perform data analysis and data wrangling using Python Combine group and aggregate data from multiple sources Create data visualizations with pandas matplotlib and seaborn Apply machine learning algorithms to identify

patterns and make predictions Use Python data science libraries to analyze real world datasets Solve common data representation and analysis problems using pandas Build Python scripts modules and packages for reusable analysis code Who this book is for This book is for data science beginners data analysts and Python developers who want to explore each stage of data analysis and scientific computing using a wide range of datasets Data scientists looking to implement pandas in their machine learning workflow will also find plenty of valuable know how as they progress You ll find it easier to follow along with this book if you have a working knowledge of the Python programming language but a Python crash course tutorial is provided in the code bundle for anyone who needs a refresher *Python for Data Analysis* Andrew Park,2021-04-22 55% OFF for Bookstores NOW at 41 97 instead of 51 97 Do you want to learn more about Data Analysis and how to master it with Python Your Customers Will Love This Amazing Guide Everyone talks about data today You have probably come across the term data more times than you can remember in one day Data as a concept is so wide One thing that is true about data is that it can be used to tell a story The story could be anything from explaining an event to predicting the future Data is the future Businesses governments organizations criminals everyone needs data for some reason Entities are investing in different data approaches to help them understand their current situation and use it to prepare for the unknown The world of technology as we know it is evolving towards an open source platform where people share ideas freely This is seen as the first step towards the decentralization of ideas and eliminating unnecessary monopolies Therefore the data tools and techniques used in the analysis are easily available for anyone to interpret data sets and get relevant explanations With Python for Data Analysis you will learn about the main steps that are needed to correctly implement Data Analysis and the procedures to help you extract the right insights from the right data Some of 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 *Learning pandas* Michael Heydt,2017-06-30 Get to grips with pandas a versatile and high performance Python library for data manipulation analysis and discovery About This Book Get comfortable

using pandas and Python as an effective data exploration and analysis tool Explore pandas through a framework of data analysis with an explanation of how pandas is well suited for the various stages in a data analysis process A comprehensive guide to pandas with many of clear and practical examples to help you get up and using pandas Who This Book Is For This book is ideal for data scientists data analysts Python programmers who want to plunge into data analysis using pandas and anyone with a curiosity about analyzing data Some knowledge of statistics and programming will be helpful to get the most out of this book but not strictly required Prior exposure to pandas is also not required What You Will Learn Understand how data analysts and scientists think about of the processes of gathering and understanding data Learn how pandas can be used to support the end to end process of data analysis Use pandas Series and DataFrame objects to represent single and multivariate data Slicing and dicing data with pandas as well as combining grouping and aggregating data from multiple sources How to access data from external sources such as files databases and web services Represent and manipulate time series data and the many of the intricacies involved with this type of data How to visualize statistical information How to use pandas to solve several common data representation and analysis problems within finance In Detail You will learn how to use pandas to perform data analysis in Python You will start with an overview of data analysis and iteratively progress from modeling data to accessing data from remote sources performing numeric and statistical analysis through indexing and performing aggregate analysis and finally to visualizing statistical data and applying pandas to finance With the knowledge you gain from this book you will quickly learn pandas and how it can empower you in the exciting world of data manipulation analysis and science Style and approach Step by step instruction on using pandas within an end to end framework of performing data analysis Practical demonstration of using Python and pandas using interactive and incremental examples

Hands-On Data Analysis with Pandas Stefanie Molin,2019-07-26 Get to grips with pandas a versatile and high performance Python library for data manipulation analysis and discovery Key FeaturesPerform efficient data analysis and manipulation tasks using pandasApply pandas to different real world domains using step by step demonstrationsGet accustomed to using pandas as an effective data exploration toolBook Description Data analysis has become a necessary skill in a variety of positions where knowing how to work with data and extract insights can generate significant value Hands On Data Analysis with Pandas will show you how to analyze your data get started with machine learning and work effectively with Python libraries often used for data science such as pandas NumPy matplotlib seaborn and scikit learn Using real world datasets you will learn how to use the powerful pandas library to perform data wrangling to reshape clean and aggregate your data Then you will learn how to conduct exploratory data analysis by calculating summary statistics and visualizing the data to find patterns In the concluding chapters you will explore some applications of anomaly detection regression clustering and classification using scikit learn to make predictions based on past data By the end of this book you will be equipped with the skills you need to use pandas to ensure the veracity of your data visualize it for effective decision making

and reliably reproduce analyses across multiple datasets What you will learnUnderstand how data analysts and scientists gather and analyze dataPerform data analysis and data wrangling in PythonCombine group and aggregate data from multiple sourcesCreate data visualizations with pandas matplotlib and seabornApply machine learning ML algorithms to identify patterns and make predictionsUse Python data science libraries to analyze real world datasetsUse pandas to solve common data representation and analysis problemsBuild Python scripts modules and packages for reusable analysis codeWho this book is for This book is for data analysts data science beginners and Python developers who want to explore each stage of data analysis and scientific computing using a wide range of datasets You will also find this book useful if you are a data scientist who is looking to implement pandas in machine learning Working knowledge of Python programming language will be beneficial   **The Complete Pandas Tutorial: Learn Data Analysis, Cleaning, and Transformation in Python** Prashant Mondkar, Python Pandas is one of the most powerful and widely used libraries for data analysis and data manipulation Understanding Pandas is an essential skill for anyone working with data in Python The Complete Pandas Tutorial Learn Data Analysis Cleaning and Transformation in Python is a comprehensive step by step guide designed to help beginners and intermediate learners master Pandas with confidence This book starts with the fundamentals introducing Pandas Series and DataFrames and gradually progresses to more advanced topics such as data cleaning indexing filtering grouping merging reshaping time series handling and performance optimization Each concept is explained clearly with practical examples and well structured Python code You will learn how to Load data from CSV Excel JSON and other sources Clean and prepare real world datasets Select filter and transform data efficiently Handle missing values and duplicates Perform data aggregation and grouping Merge and join multiple datasets Work with dates strings and categorical data Visualize data using Pandas and Matplotlib Optimize Pandas performance for large datasets This book focuses on practical understanding rather than unnecessary theory making it ideal for students Python developers data analysts and anyone looking to build strong data analysis skills By the end of this book you will be able to confidently use Pandas to analyze and transform data for real world projects   *Thinking in Pandas* Hannah Stepanek,2020-06-05 Understand and implement big data analysis solutions in pandas with an emphasis on performance This book strengthens your intuition for working with pandas the Python data analysis library by exploring its underlying implementation and data structures Thinking in Pandas introduces the topic of big data and demonstrates concepts by looking at exciting and impactful projects that pandas helped to solve From there you will learn to assess your own projects by size and type to see if pandas is the appropriate library for your needs Author Hannah Stepanek explains how to load and normalize data in pandas efficiently and reviews some of the most commonly used loaders and several of their most powerful options You will then learn how to access and transform data efficiently what methods to avoid and when to employ more advanced performance techniques You will also go over basic data access and munging in pandas and the intuitive dictionary syntax Choosing the right DataFrame format working with

multi level DataFrames and how pandas might be improved upon in the future are also covered By the end of the book you will have a solid understanding of how the pandas library works under the hood Get ready to make confident decisions in your own projects by utilizing pandas the right way What You Will Learn Understand the underlying data structure of pandas and why it performs the way it does under certain circumstances Discover how to use pandas to extract transform and load data correctly with an emphasis on performance Choose the right DataFrame so that the data analysis is simple and efficient Improve performance of pandas operations with other Python libraries Who This Book Is ForSoftware engineers with basic programming skills in Python keen on using pandas for a big data analysis project Python software developers interested in big data **Python Made Easy** Nilabh Nishchhal,2020-10-20 Python Made Easy Beginners Guide to Programming and Data Analysis using Python Get comprehensive learning of Python Programming starting from the very basics and going up to utilizing python libraries for data analysis and Visualization Based on the author s journey to master Python this book will help you to quickly start with writing programs and solving your problems using Python It provides an ideal and elegant way to start learning Python both for a newcomer to the programming world and a professional developer expert in other languages This book comes loaded with illustrations and real life examples It gives you exercises which challenge you to refresh your conceptual clarity and write better codes It is super easy to follow and will work as a self paced tutorial to get you started with the latest and best in Python All the advanced Python features to date are included Get to know the history present and future of Data Science Get introduced to the basics of Computer Programming Explore the exciting world of Python using Anaconda Learn how to install and use Python on your computer Create your Variables Objects and learn Syntax of operations Explore Python s built in object types like Lists dictionaries Tuples Strings and sets Learn to make your codes reusable by using functions Organize your codes functions and other objects into larger components with Modules Explore Classes the Object Oriented Programming tool for elegant codes Write complex codes and learn how to handle Errors and Exceptions Learn about NumPy arrays and operations on them Explore data analysis using pandas on a real life data set Dive into the exciting world of Visualization with 3 chapters on Visualization and Matplotlib Experience the Power of What you learnt by 3 projects Learn to make your own application complete with GUI by using API **Hands-On Data Analysis with Pandas** STEFANIE. MOLIN,2019-07-26 *Data Science from Scratch with Python* Peter Morgan,2018-08-21 BUY NOW will soon return to 24 77 MONEY BACK GUARANTEE BY AMAZON See Below FAQ Are you thinking of learning data science from scratch using Python For Beginners If you are looking for a complete step by step guide to data science using Python from scratch this book is for you After his great success with his first book Data Analysis from Scratch with Python Peter Morgan publishes his second book focusing now in data science and machine learning It is considered by practitioners as the easiest guide ever written in this domain From AI Sciences Publisher Our books may be the best one for beginners it s a step by step guide for any person who wants to start learning Artificial Intelligence and Data Science from

scratch Readers are advised to adopt a hands on approach which would lead to better mental representations Step by Step Guide and Visual Illustrations and ExamplesThe Book give complete instructions for manipulating processing cleaning modeling and crunching datasets in Python This is a hands on guide with practical case studies of data analysis problems effectively You will learn pandas NumPy IPython and Jupiter in the Process Target Users Beginners who want to approach data science but are too afraid of complex math to start Newbies in computer science techniques and data science Professors lecturers or tutors who are looking to find better ways to explain the content to their students in the simplest and easiest way Students and academicians especially those focusing on data science What s Inside This Book Part 1 Data Science Fundamentals Concepts and Algorithms Introduction Statistics Probability Bayes Theorem and Na ve Bayes Algorithm Asking the Right Question Data Acquisition Data Preparation Data Exploration Data Modelling Data Presentation Supervised Learning Algorithms Unsupervised Learning Algorithms Semi supervised Learning Algorithms Reinforcement Learning Algorithms Overfitting and Underfitting The Bias Variance Trade off Feature Extraction and Selection Part 2 Data Science in Practice Overview of Python Programming Language Python Data Science Tools Jupyter Notebook Numerical Python Numpy Pandas Scientific Python Scipy Matplotlib Scikit Learn K Nearest Neighbors Naive Bayes Simple and Multiple Linear Regression Logistic Regression GLM models Decision Trees and Random forest Perceptrons Backpropagation Clustering Natural Language Processing Frequently Asked Questions Q Does this book include everything I need to become a data science expert A Unfortunately no This book is designed for readers taking their first steps in data science and machine learning using Python and further learning will be required beyond this book to master all aspects Q Can I have a refund if this book doesn t fit for me A Yes Amazon refund you if you aren t satisfied for more information about the amazon refund service please go to the amazon help platform MONEY BACK GUARANTEE BY AMAZON Editorial Reviews This is a fantastic book on Python based data science data analysis machine learning Reinforcement learning and deep learning As a data scientist with more than 10 years Peter has had long experience in data science and give in this book the key elements Lei Xia Data Scientist Expert at Facebook   **Python For Data Analysis** Samuel Burns,2019-10-10 You want to learn Python for data analysis using NumPy Pandas and IPython and you don t know how to start You don t need a big boring and expensive textbook This book is the best one for everyone Get your copy Now Why this book Here are the reasons The author has explored everything about python for data analysis using pandas NumPy Ipython and Matplotlib libraries from the basics A simple language has been used Many examples have been given both theoretically and programmatically Screenshots showing program outputs have been added The book is written chronologically in a step by step manner Book Objectives The Aims and Objectives of the Book To help you understand why you should choose Python for data analysis tasks To help you know the various data analysis libraries supported by Python and how to use them To help you know how to analyze your business data and draw meaningful insights for effective decision making To equip you with data analysis skills using Python

programming language To help you know where data analysis is applied today and how to use it in your everyday life Who is this Book is for Here are the target readers for this book Anybody who is a complete beginner to data analysis with Python or data analysis in general Anybody who wants to advance their data analysis skills with Python programming language Anybody who wants to know how to use data analysis for the benefit of their business or brand Professionals in data science computer programming computer scientist Professors lecturers or tutors who are looking to find better ways to explain python for data analysis to their students in the simplest and easiest way Students and academicians especially those focusing on python programming computer science neural networks machine learning and deep learning What do you need for this Book You are required to have installed the following on your computer Python 3 X Numpy Pandas Matplotlib The Author guides you on how to install and configure the rest of the Python libraries that are required for data analysis What is inside the book Why Python for Data Analysis Exploring the Libraries Installation and Setup Using IPython Numpy Arrays and Vectorized Computation Pandas Library Data Wrangling Data Visualization Data Aggregation Working with Time Series Data Applications of Data Analysis Today The content of this book is all about data analysis with Python programming language using NumPy Pandas and IPython It has been grouped into chapters with each chapter exploring a different aspect of data analysis The author has provided Python codes for doing different data analysis tasks All these codes have been tested to ensure they are working correctly Corresponding explanations have also been provided alongside each piece of code to help the reader understand the meaning of the various lines of the code In addition to this screenshots showing the output that each code should return have been given The author has used a simple language to make it easy even for beginners to understand The author begins by exploring the basic to the complex tasks in data analysis   Python for Data Analysis Andrew Park,2019-12-17 If you want to learn more about Data Analysis or how to master it with the Python Programming Language then keep reading Everyone talks about data today You have probably come across the term data more times than you can remember in one day Data as a concept is so wide One thing that is true about data is that it can be used to tell a story The story could be anything from explaining an event to predicting the future Data is the future Businesses governments organizations criminals everyone needs data for some reason Entities are investing in different data approaches to help them understand their current situation and use it to prepare for the unknown The world of technology as we know it is evolving towards an open source platform where people share ideas freely This is seen as the first step towards the decentralization of ideas and eliminating unnecessary monopolies Therefore the data tools and techniques used in the analysis are easily available for anyone to interpret data sets and get relevant explanations Many tools can be used for Data Analysis For this reason the ultimate choice often becomes a challenge for most people To set you on the right path the first step is to decide which language you want to learn then build from there Beginner programmers struggle with this a lot With Python for Data Analysis you will learn about the main steps that are needed to correctly implement Data Analysis and the

procedures to help you extract the right insights from the right data Some of 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 The 7 Python libraries that make Python one of the best choices for Data Analysis Pandas Jupyter and PyTorch 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 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 Scroll to the top of the page and click the Buy now button to get your copy now **Hands-on Data Analysis and Visualization with Pandas** PURNA CHANDER RAO KATHULA,2020-09-03 Learn how to use JupyterLab Numpy pandas Scipy Matplotlib and Seaborn for Data science Key Features a Get familiar with different inbuilt Data structures Functional programming and Datetime objects a Handling heavy Datasets to optimize the data types for memory management reading files in chunks dask and modin pandas a Time series analysis to find trends seasonality and cyclic components Seaborn to build aesthetic plots with high level interfaces and customized themes a Exploratory data analysis with real time datasets to maximize the insights about data Description The book will start with quick introductions to Python and its ecosystem libraries for data science such as JupyterLab Numpy Pandas SciPy Matplotlib and Seaborn This book will help in learning python data structures and essential concepts such as Functions Lambdas List comprehensions Datetime objects etc required for data engineering It also covers an in depth understanding of Python data science packages where JupyterLab used as an IDE for writing documenting and executing the python code Numpy used for computation of numerical operations Pandas for cleaning and reorganizing the data handling large datasets and merging the dataframes to get meaningful insights You will go through the statistics to understand the relation between the variables using SciPy and building visualization charts using Matplotllib and Seaborn libraries What will you learn a Learn about Python data containers their methods and attributes a Learn Numpy arrays for the computation of numerical data a Learn Pandas data structures DataFrames and Series a Learn statistics measures of central tendency central limit theorem confidence intervals and hypothesis testing a A brief understanding of visualization control and draw different inbuilt charts to extract important variables detect outliers and anomalies using Matplotlib and Seaborn Who this book is for This book is for anyone who wants to use Python for Data Analysis and Visualization This book is for novices as well as experienced readers with working knowledge of the pandas library Basic knowledge of Python is a must Table of Contents 1 Introduction

to Data Analysis 2 Jupyter lab 3 Python overview 4 Introduction to Numpy 5 Introduction to Pandas 6 Data Analysis 7 Time Series Analysis 8 Introduction to Statistics 9 Matplotlib 10 Seaborn 11 Exploratory Data Analysis About the Author Purna Chander Rao Kathula is a Data Science enthusiast Data Manager Seasoned Programmer and a Technical trainer with around 17 years of experience in a vast array of languages including Perl C C Java and Python and wide variety set of domains like Insurance Adtech Storage Gaming Mobility Big Data and Analytics He is a certified Applied Data Science with Python Specialization from Coursera University of Michigan He graduated from the College of Engineering G I T A M with a degree in Mechanical Engineering He is a frequent speaker at DataScience and Data Engineering user groups and he regularly delivers webinars and conducts training on Hadoop Big data Data Analysis and Visualization technologies Your Blog links https blog imaginea com author purna chander rao kathula https www slideshare net PurnaChander1 https www slideshare net sriganesha hive and data analysis using pandas Your LinkedIn Profile https www linkedin com in purna chander rao kathula 043852a   **Python for Data Analysis** Andrew Park,2020-07-08 If you want to learn more about Data Analysis or how to master it with the Python Programming Language then keep reading Everyone talks about data today You have probably come across the term data more times than you can remember in one day Data as a concept is so wide One thing that is true about data is that it can be used to tell a story The story could be anything from explaining an event to predicting the future Data is the future Businesses governments organizations criminals everyone needs data for some reason Entities are investing in different data approaches to help them understand their current situation and use it to prepare for the unknown The world of technology as we know it is evolving towards an open source platform where people share ideas freely This is seen as the first step towards the decentralization of ideas and eliminating unnecessary monopolies Therefore the data tools and techniques used in the analysis are easily available for anyone to interpret data sets and get relevant explanations With Python for Data Analysis you will learn about the main steps that are needed to correctly implement Data Analysis and the procedures to help you extract the right insights from the right data Some of 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 Scroll up and click on the BUY NOW button to get your copy now   *Python for Data Analysis, 2nd Edition* William McKinney Wesley,2017

Learning Pandas Python Data Discovery And Analysis Made Easy Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Learning Pandas Python Data Discovery And Analysis Made Easy**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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