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are attracting talent from a wide variety of technical business and liberal arts disciplines Python the world's #1 programming language is also the most popular language for data science and machine learning This is the first guide specifically designed to help millions of people with widely diverse backgrounds learn Python so they can use it for data science and machine learning Leading data science instructor and practitioner Kennedy Behrman first walks through the process of learning to code for the first time with Python and Jupyter notebook then introduces key libraries every Python data science programmer needs to master Once you've learned these foundations Behrman introduces intermediate and applied Python techniques for real world problem solving Master Google colab notebook Data Science programming Manipulate data with popular Python libraries such as pandas and numpy Apply Python Data Science recipes to real world projects Learn functional programming essentials unique to Data Science Access case studies chapter exercises learning assessments comprehensive Jupyter based Notebooks and a complete final project Throughout Foundational Python for Data Science presents hands on exercises learning assessments case studies and more all created with colab Jupyter compatible notebooks so you can execute all coding examples interactively without installing or configuring any software

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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, 2nd Edition William McKinney Wesley,2017

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 For Software engineers with basic programming skills in Python keen on using pandas for a big data analysis project Python software developers interested in big data

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