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 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 **Mastering pandas** Ashish Kumar,2019-10-25 Perform advanced data manipulation tasks using pandas and become an expert data analyst Key FeaturesManipulate and analyze your data expertly using the power of pandasWork with missing data and time series data and become a true pandas expertIncludes expert tips and techniques on making your data analysis tasks easierBook Description pandas is a popular Python library used by data scientists and analysts worldwide to manipulate and analyze their data This book presents useful data manipulation techniques in pandas to perform complex data analysis in various domains An update to our highly successful previous edition with new features examples updated code and more this book is an in depth guide to get the most out of pandas for data analysis Designed for both intermediate users as well as seasoned practitioners you will learn advanced data manipulation techniques such as multi indexing modifying data structures and sampling your data which allow for powerful analysis and help you gain accurate insights from it With the help of this book you will apply pandas to different domains such as Bayesian statistics predictive analytics and time series analysis using an example based approach And not just that you will also learn how to prepare powerful interactive business reports in pandas using the Jupyter notebook By the end of this book you will learn how to perform efficient data analysis using pandas on complex data and become an expert data analyst or data scientist in the process What you will learnSpeed up your data analysis by importing data into pandasKeep relevant data points by selecting subsets of your dataCreate a high quality dataset by cleaning data and fixing missing valuesCompute actionable analytics with grouping and aggregation in pandasMaster time series data analysis in pandasMake powerful reports in pandas using Jupyter notebooksWho this book is for This book is for data scientists analysts and Python developers who wish to explore advanced data analysis and scientific computing techniques using pandas Some fundamental understanding of Python programming and familiarity with the basic data analysis concepts is all you need to get started with this book *Hands-On Data Analysis with NumPy and pandas* Curtis Miller,2018-06-29 Get to grips with the most popular Python packages that make data analysis possible Key Features Explore the tools you need to become a data analyst Discover practical examples to help you grasp data processing concepts Walk through hierarchical indexing and grouping for data analysis Book Description Python a multi paradigm programming language has become the language of choice for data scientists for visualization data analysis and machine learning Hands On Data Analysis with NumPy and Pandas starts by guiding you in setting up the right environment for data analysis with Python along with helping you install the correct Python distribution In addition to this you will work with the Jupyter notebook and set up a database Once you have covered Jupyter you will dig deep into Python s NumPy package a powerful extension with advanced mathematical functions You will then move on to creating NumPy arrays

and employing different array methods and functions You will explore Python s pandas extension which will help you get to grips with data mining and learn to subset your data Last but not the least you will grasp how to manage your datasets by sorting and ranking them By the end of this book you will have learned to index and group your data for sophisticated data analysis and manipulation What you will learn Understand how to install and manage Anaconda Read sort and map data using NumPy and pandas Find out how to create and slice data arrays using NumPy Discover how to subset your DataFrames using pandas Handle missing data in a pandas DataFrame Explore hierarchical indexing and plotting with pandas Who this book is for Hands On Data Analysis with NumPy and Pandas is for you if you are a Python developer and want to take your first steps into the world of data analysis No previous experience of data analysis is required to enjoy this book **Ultimate Pandas for Data Manipulation and Visualization** Tahera Firdose,2024-06-10 TAGLINE Unlock the power of Data Manipulation with Pandas KEY FEATURES Master Pandas from basics to advanced and its data manipulation techniques Visualize data effectively with Matplotlib and explore data efficiently Learn through hands on examples and practical real world use cases DESCRIPTION Unlock the power of Pandas the essential Python library for data analysis and manipulation This comprehensive guide takes you from the basics to advanced techniques ensuring you master every aspect of pandas You ll start with an introduction to pandas and data analysis followed by in depth explorations of pandas Series and DataFrame the core data structures Learn essential skills for data cleaning and filtering and master grouping and aggregation techniques to summarize and analyze your data sets effectively Discover how to reshape and pivot data join and merge multiple datasets and handle time series analysis Enhance your data analysis with compelling visualizations using Matplotlib and apply your knowledge in a real world scenario by analyzing bank customer churn Through hands on examples and practical use cases this book equips you with the tools to clean filter aggregate reshape merge and visualize data effectively transforming it into actionable insights WHAT WILL YOU LEARN Wrangle data efficiently using Pandas cleaning filtering and transformation techniques Unlock hidden patterns with advanced grouping joining and merging operations Master time series analysis with Pandas to extract valuable insights from your data Apply Pandas to real world scenarios like customer churn analysis and financial modeling Unleash the power of data visualization with Matplotlib and craft compelling charts and graphs Enhance your workflow with essential Pandas optimizations and performance tips WHO IS THIS BOOK FOR This book is ideal for aspiring data scientists analysts and Python enthusiasts looking to enhance their data manipulation skills using Pandas Familiarity with Python programming basics and a basic understanding of data structures will greatly benefit readers as they delve into the concepts presented in this book TABLE OF CONTENTS 1 Introduction to Pandas and Data Analysis 2 Pandas Series 3 Pandas DataFrame 4 Data Cleaning with Pandas 5 Data Filtering with Pandas 6 Grouping and Aggregating Data 7 Reshaping and Pivoting in Pandas 8 Joining and Merging Data in Pandas 9 Introduction to Time Series Analysis in Pandas 10 Visualization Using Matplotlib 11 Analyzing Bank Customer Churn Using Pandas Index *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

  Pandas 1.x Cookbook Matt Harrison,Theodore Petrou,2020-02-27 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 DescriptionThe 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 **Scientific Computing with Python** Claus Fuhrer,Jan Erik Solem,Olivier Verdier,2021-07-30 Leverage this example packed comprehensive guide for all your Python computational needs Key FeaturesLearn the first steps within Python to highly specialized conceptsExplore examples and code snippets taken from typical programming situations within scientific computing Delve into essential computer science concepts like iterating object oriented programming testing and MPI presented in strong connection to applications within scientific computing Book Description Python has tremendous potential within the scientific computing domain This updated edition of Scientific Computing with Python features new chapters on graphical user interfaces efficient data processing and parallel computing to help you perform mathematical and scientific computing efficiently using Python This book will help you to explore new Python syntax features and create different models using scientific computing principles The book presents Python alongside mathematical applications and demonstrates how to apply Python concepts in computing with the help of examples involving Python 3 8 You ll use pandas for basic data analysis to understand the modern needs of scientific computing and cover data module improvements and built in features You ll also explore numerical computation modules such as NumPy and SciPy which enable fast access to highly efficient numerical algorithms By learning to use the plotting module Matplotlib you will be able to represent your computational results in talks and publications A special chapter is devoted to SymPy a tool for bridging symbolic and numerical computations By the end of this Python book you ll have gained a solid understanding of task automation and how to implement and test mathematical algorithms within the realm of scientific computing What you will learnUnderstand the building blocks of computational mathematics linear algebra and related Python objectsUse Matplotlib to create high quality figures and graphics to draw and visualize resultsApply object oriented programming OOP to scientific computing in PythonDiscover how to use pandas to enter the world of data processingHandle exceptions for writing reliable and usable codeCover manual and automatic aspects of testing for scientific programmingGet to grips with parallel computing to increase computation speedWho this book is for This book is for students with a mathematical background university teachers designing modern courses in programming data scientists researchers developers and anyone who wants to perform scientific computation in Python *Pandas in*

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