



Foundations for Analytics with Python

FROM NON-PROGRAMMER TO HACKER

Clinton W. Brownley

Foundations For Analytics With Python From Non Programmer To Hacker

Raffaela Di Napoli



Foundations For Analytics With Python From Non Programmer To Hacker:

Foundations for Analytics with Python Clinton W. Brownley, 2016-08-16 If you're like many of Excel's 750 million users you want to do more with your data like repeating similar analyses over hundreds of files or combining data in many files for analysis at one time This practical guide shows ambitious non programmers how to automate and scale the processing and analysis of data in different formats by using Python After author Clinton Brownley takes you through Python basics you'll be able to write simple scripts for processing data in spreadsheets as well as databases You'll also learn how to use several Python modules for parsing files grouping data and producing statistics No programming experience is necessary Create and run your own Python scripts by learning basic syntax Use Python's csv module to read and parse CSV files Read multiple Excel worksheets and workbooks with the xlrd module Perform database operations in MySQL or with the mysqlclient module Create Python applications to find specific records group data and parse text files Build statistical graphs and plots with matplotlib pandas ggplot and seaborn Produce summary statistics and estimate regression and classification models Schedule your scripts to run automatically in both Windows and Mac environments

Foundations for Analytics with Python Clinton W. Brownley, 2016-08-16 If you're like many of Excel's 750 million users you want to do more with your data like repeating similar analyses over hundreds of files or combining data in many files for analysis at one time This practical guide shows ambitious non programmers how to automate and scale the processing and analysis of data in different formats by using Python After author Clinton Brownley takes you through Python basics you'll be able to write simple scripts for processing data in spreadsheets as well as databases You'll also learn how to use several Python modules for parsing files grouping data and producing statistics No programming experience is necessary Create and run your own Python scripts by learning basic syntax Use Python's csv module to read and parse CSV files Read multiple Excel worksheets and workbooks with the xlrd module Perform database operations in MySQL or with the mysqlclient module Create Python applications to find specific records group data and parse text files Build statistical graphs and plots with matplotlib pandas ggplot and seaborn Produce summary statistics and estimate regression and classification models Schedule your scripts to run automatically in both Windows and Mac environments

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Data Analysis for Social Science and Marketing Research Using Python Manoj Morais, Sreekumar Radhakrishna Pillai, 2016-05-22 The book is written for researchers in social science and marketing field especially for those with little or no knowledge in computer programming Data analytics has become part and parcel in the contemporary technologically fast paced world We have amazing tools and software that allow us to analyse data available in various formats However most of the popular paid software and packages for data analysis is not affordable or not even accessible for the students researchers This is true in the case of many NGOs and agencies who are involved in community based research in developing countries We have popular open source platforms and tools such as R and Python for data

analysis This book makes use of Python because of its simplicity adaptability broader scope and greater potential in advanced data mining and text mining contexts We found it as a need to educate and train the researchers from social science and marketing research background so that they could make use of Python a promising tool to meet simple to extremely complex data analyses needs free of cost The learnings from this book will not only help them in doing their conventional data analyses but also enable them to pursue advanced knowledge in machine learning algorithms text analytics and other new generation techniques with the support of freely accessible open source platforms Since the objective of the book is to educate the researchers with no programming background we have made every effort to give hands on experience in learning some basic coding in Python which is sufficient for the readers to follow the book The step by step procedure to do various data processing and analysis described in this book will make it easy for the users Apart from that we have tried our level best to give explanations on specific codes and how they perform to get us the desired output We also request you to give you valuable comments and suggestions on the book via our blog so that we could improve the same in the upcoming volumes We commit ourselves to providing explanations to the readers questions related to the codes and analysis provided in this book The book specifically deals with data sets of row and column format as the general format commonly used in social science research which most of the researchers are familiar with So we do not work with arrays and dictionaries except in one or two occasions only to make you familiar with that instead prefer to make use of Excel data and pandas data frame The book consists of thirteen chapters The first chapter gives an introduction to Python and its relevance and scope in contemporary data analysis contexts Ch 2 teaches the basics and Python coding Ch 3 7 provide a step by step narration of how to enter data process it preliminary analysis and data cleaning with the help of Python Ch 8 9 present data visualizations and narration techniques using Python Ch 10 demonstrate how Python can use for statistical analysis The remaining chapters are focusing on giving more real life situations in data analysis and the practical solutions to handle them The exercises provided in the book are similar to real analysis situations and that will help the reader for an easy transition to the data analyst jobs The authors have taken utmost care identifying and providing solutions to all practical difficulties the readers may face while using Python for data analysis purpose The authors have developed a series of codes and have incorporated them to make data processing and analysis convenient and easy for the researchers The self learning materials given in this book will help social science and marketing researchers to deepen their understanding of various steps in data processing and analyses and to gain advanced skills in using Python for this purpose

Data Analysis Foundations with Python

Quantum Technologies LLC,2024-06-12 Dive into data analysis with Python starting from the basics to advanced techniques This course covers Python programming data manipulation with Pandas data visualization exploratory data analysis and machine learning Key Features From Python basics to advanced data analysis techniques Apply your skills to practical scenarios through real world case studies Detailed projects and quizzes to help gain the necessary skills Book

Description Embark on a comprehensive journey through data analysis with Python. Begin with an introduction to data analysis and Python, setting a strong foundation before delving into Python programming basics. Learn to set up your data analysis environment, ensuring you have the necessary tools and libraries at your fingertips. As you progress, gain proficiency in NumPy for numerical operations and Pandas for data manipulation, mastering the skills to handle and transform data efficiently. Proceed to data visualization with Matplotlib and Seaborn, where you'll create insightful visualizations to uncover patterns and trends. Understand the core principles of exploratory data analysis (EDA) and data preprocessing, preparing your data for robust analysis. Explore probability theory and hypothesis testing to make data-driven conclusions and get introduced to the fundamentals of machine learning. Delve into supervised and unsupervised learning techniques, laying the groundwork for predictive modeling. To solidify your knowledge, engage with two practical case studies: sales data analysis and social media sentiment analysis. These real-world applications will demonstrate best practices and provide valuable tips for your data analysis projects. What you will learn: Develop a strong foundation in Python for data analysis; Manipulate and analyze data using NumPy and Pandas; Create insightful data visualizations with Matplotlib and Seaborn; Understand and apply probability theory and hypothesis testing; Implement supervised and unsupervised machine learning algorithms; Execute real-world data analysis projects with confidence. Who this book is for: This course adopts a hands-on approach, seamlessly blending theoretical lessons with practical exercises and real-world case studies. Practical exercises are designed to apply theoretical knowledge, providing learners with the opportunity to experiment and learn through doing. Real-world applications and examples are integrated throughout the course to contextualize concepts, making the learning process engaging, relevant, and effective. By the end of the course, students will have a thorough understanding of the subject matter and the ability to apply their knowledge in practical scenarios.

Introduction to Practical Business Analytics for Everyone Kumar P, Rohith B, 2024-12-06 In today's fast-paced and data-driven business environment, analytics has become an essential tool for making informed decisions, driving growth, and gaining a competitive edge. However, despite its growing importance, many business professionals, especially those without technical backgrounds, find the world of business analytics intimidating. This book aims to bridge that gap and empower everyone, regardless of their technical expertise, to harness the power of analytics effectively. Introduction to Practical Business Analytics for Everyone Using JASP or Python is a unique guide designed for two distinct groups of readers: non-IT professionals and IT professionals/programmers. We recognize that business analysts, managers, and decision makers often require insights from data without needing to dive deep into the intricacies of coding, while developers and data scientists may need a more programmatic approach to tackle complex business problems. With this in mind, the book is divided into two parallel tracks: Using JASP (No Coding) for Non-IT Professionals and Using Python for IT Professionals. For non-technical users or those new to analytics, JASP offers a user-friendly, intuitive interface that simplifies complex statistical tasks. Through this section, you will learn how to apply powerful business analytics techniques without

writing a single line of code The focus is on practical tools and methods to help you understand your data identify trends make predictions and communicate findings clearly to stakeholders Using Python For IT Professionals Programmers For those with programming expertise Python is the go to language for advanced data analysis and analytics in business This track takes a hands on code driven approach allowing you to dive deeper into data processing visualization machine learning and predictive modeling By using Python you will learn how to automate processes perform complex analyses and scale solutions that would otherwise be cumbersome in traditional business analytics tools Throughout this book we use a single business dataset as the foundation for our discussions ensuring a cohesive and practical understanding of how business analytics concepts are applied in real world scenarios The dataset is carefully selected to represent a variety of challenges businesses commonly face from customer segmentation and sales forecasting to performance analysis and optimization Each chapter builds upon the last progressively introducing more sophisticated techniques while reinforcing core principles You will discover that analytics is not just about statistical tests or code It s about transforming raw data into actionable insights that can inform business strategies By the end of this book regardless of whether you re a non IT professional or an experienced programmer you ll be equipped with practical skills to solve complex business problems improve decision making and make an impact with data Who Should Read This Book Non IT Professionals Business analysts managers and decision makers who need to understand and apply analytics without the need for programming skills IT Professionals Programmers Data scientists developers and analysts who seek to apply advanced techniques and automation to their business analytics projects Anyone Interested in Business Analytics Whether you are new to the field or an experienced practitioner this book offers valuable insights regardless of your technical background By focusing on the practical aspects of business analytics this book offers a comprehensive approachable and hands on guide to turning data into actionable business insights Whether you re using JASP or Python you ll learn how to make informed decisions that can improve your business s performance and drive future success

Data Analytics and Python Programming. Beginners Guide to Learn Data Analytics, Predictive Analytics and Data Science with Python Programming Isaac D. Cody, 2016-12-28

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Data Analytics With Python Frank Millstein, 2020-05-08 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

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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 [Python for Data Science](#) Jason Callaway,2020-11-25 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 **Foundational Python for Data Science** Kennedy Behrman,2021 Data science and machine learning two of the world's hottest fields 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 students with widely diverse backgrounds learn foundational Python so they can use it for data science and machine learning This book is catered to introductory level college courses on data science 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 students have learned these foundations Behrman introduces intermediate and applied Python techniques for real world problem solving Throughout

Foundational Python for Data Science presents hands on exercises learning assessments case studies and more all created with colab jupyter compatible notebooks so students can execute all coding examples interactively without installing or configuring any software

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Python for Data Analysis Wes McKinney, 2017-09-25 Get complete instructions for manipulating processing cleaning and crunching datasets in Python Updated for Python 3.6 the second edition of this hands on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively You ll learn the latest versions of pandas NumPy IPython and Jupyter in the process Written by Wes McKinney the creator of the Python pandas project this book is a practical modern introduction to data science tools in Python It s ideal for analysts new to Python and for Python programmers new to data science and scientific computing Data files and related material are available on GitHub Use the IPython shell and Jupyter notebook for exploratory computing Learn basic and advanced features in NumPy Numerical Python Get started with data

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Data Wrangling with Python Jacqueline Kazil,Katharine Jarmul,2016-02-04 How do you take your data analysis skills beyond Excel to the next level By learning just enough Python to get stuff done This hands on guide shows non programmers like you how to process information that s initially too messy or difficult to access You don t need to know a thing about the Python programming language to get started Through various step by step exercises you ll learn how to acquire clean analyze and present data efficiently You ll also discover how to automate your data process schedule file editing and clean up tasks process larger datasets and create compelling stories with data you obtain Quickly learn basic Python syntax data types and language concepts Work with both machine readable and human consumable data Scrape websites and APIs to find a bounty of useful information Clean and format data to eliminate duplicates and errors in your datasets Learn when to standardize data and when to test and script data cleanup Explore and analyze your datasets with new Python libraries and techniques Use Python solutions to automate your entire data wrangling process **Python Programming Crash Course**

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Foundations For Analytics With Python From Non Programmer To Hacker Introduction

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