IPython Notebook Essentials

Compute scientific data and execute code interactively with NumPy and SciPy

L. Felipe Martins

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In Detail Data analysis is the process of applying logical and analytical reasoning to study each component of data present in the system Python is a multi domain high level programming language that offers a range of tools and libraries suitable for all purposes it has slowly evolved as one of the primary languages for data science Have you ever imagined becoming an expert at effectively approaching data analysis problems solving them and extracting all of the available information from your data If yes look no further this is the course you need In this course we will get you started with Python data analysis by introducing the basics of data analysis and supported Python libraries such as matplotlib NumPy and pandas Create visualizations by choosing color maps different shapes sizes and palettes then delve into statistical data analysis using distribution algorithms and correlations You ll then find your way around different data and numerical problems get to grips with Spark and HDFS and set up migration scripts for web mining You ll be able to quickly and accurately perform hands on sorting reduction and subsequent analysis and fully appreciate how data analysis methods can support business decision making Finally you will delve into advanced techniques such as performing regression quantifying cause and effect using Bayesian methods and discovering how to use Python s tools for supervised machine learning The course provides you with highly practical content explaining data analysis with Python from the following Packt books Getting Started with Python Data Analysis Python Data Analysis Cookbook Mastering Python Data Analysis By the end of this course you will have all the knowledge you need to analyze your data with varying complexity levels and turn it into actionable insights Style and approach Learn Python data analysis using engaging examples and fun exercises and with a gentle and friendly but comprehensive learn by doing approach It offers you a useful way of analyzing the data that s specific to this course but that can also be applied to any other data This course is designed to be both a guide and a reference for moving beyond the basics of data analysis **Interactive Applications Using Matplotlib** Benjamin V. Root,2015-03-24 This book is intended for Python programmers who want to do more than just see their data Experience with GUI toolkits is not required so this book can be an excellent complement to other GUI programming resources **Mastering pandas for Finance** Michael Heydt,2015-05-25 If you are interested in quantitative finance financial modeling and trading or simply want to learn how Python and pandas can be applied to finance then this book is ideal for you Some knowledge of Python and pandas is assumed Interest in financial concepts is helpful but no prior knowledge is expected **SciPy Recipes** V Kishore Ayyadevara,Luiz Felipe Martins,Ruben Oliva Ramos,2017-12-20 Tackle the most sophisticated problems associated with scientific computing and data manipulation using SciPy Key Features Covers a wide range of data science tasks using SciPy NumPy pandas and matplotlib Effective recipes on advanced scientific computations statistics data wrangling data visualization and more A must have book if you re looking to solve your data related problems using SciPy on the go Book Description With the SciPy Stack you get the power to effectively process manipulate and visualize your data using the popular Python language Utilizing SciPy correctly can sometimes be a very tricky proposition This book provides the right

techniques so you can use SciPy to perform different data science tasks with ease This book includes hands on recipes for using the different components of the SciPy Stack such as NumPy SciPy matplotlib and pandas among others You will use these libraries to solve real world problems in linear algebra numerical analysis data visualization and much more The recipes included in the book will ensure you get a practical understanding not only of how a particular feature in SciPy Stack works but also of its application to real world problems The independent nature of the recipes also ensure that you can pick up any one and learn about a particular feature of SciPy without reading through the other recipes thus making the book a very handy and useful guide What you will learn Get a solid foundation in scientific computing using Python Master common tasks related to SciPy and associated libraries such as NumPy pandas and matplotlib Perform mathematical operations such as linear algebra and work with the statistical and probability functions in SciPy Master advanced computing such as Discrete Fourier Transform and K means with the SciPy Stack Implement data wrangling tasks efficiently using pandas Visualize your data through various graphs and charts using matplotlib Who this book is for Python developers aspiring data scientists and analysts who want to get started with scientific computing using Python will find this book an indispensable resource If you want to learn how to manipulate and visualize your data using the SciPy Stack this book will also help you A basic understanding of Python programming is all you need to get started **Mastering Python Data Analysis** Magnus Vilhelm Persson,Luiz Felipe Martins,2016-06-27 Become an expert at using Python for advanced statistical analysis of data using real world examplesAbout This Book Clean format and explore data using graphical and numerical summaries Leverage the IPython environment to efficiently analyze data with Python Packed with easy to follow examples to develop advanced computational skills for the analysis of complex dataWho This Book Is ForIf you are a competent Python developer who wants to take your data analysis skills to the next level by solving complex problems then this advanced guide is for you Familiarity with the basics of applying Python libraries to data sets is assumed What You Will Learn Read sort and map various data into Python and Pandas Recognise patterns so you can understand and explore data Use statistical models to discover patterns in data Review classical statistical inference using Python Pandas and SciPy Detect similarities and differences in data with clustering Clean your data to make it useful Work in Jupyter Notebook to produce publication ready figures to be included in reportsIn DetailPython a multi paradigm programming language has become the language of choice for data scientists for data analysis visualization and machine learning Ever imagined how to become an expert at effectively approaching data analysis problems solving them and extracting all of the available information from your data Well look no further this is the book you want Through this comprehensive guide you will explore data and present results and conclusions from statistical analysis in a meaningful way You ll be able to quickly and accurately perform the hands on sorting reduction and subsequent analysis and fully appreciate how data analysis methods can support business decision making You ll start off by learning about the tools available for data analysis in Python and will then explore the statistical models that are used to

identify patterns in data Gradually you ll move on to review statistical inference using Python Pandas and SciPy After that we ll focus on performing regression using computational tools and you ll get to understand the problem of identifying clusters in data in an algorithmic way Finally we delve into advanced techniques to quantify cause and effect using Bayesian methods and you ll discover how to use Python s tools for supervised machine learning Style and approachThis book takes a step by step approach to reading processing and analyzing data in Python using various methods and tools Rich in examples each topic connects to real world examples and retrieves data directly online where possible With this book you are given the knowledge and tools to explore any data on your own encouraging a curiosity befitting all data scientists

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