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Compute scientific data and execute code interactively with
NumPy and SciPy

L. Felipe Martins

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Ipython Notebook Essentials

Marc Wintjen



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IPython Notebook Essentials L. Felipe Martins, 2014-11-21 If you are a professional student or educator who wants to learn to use IPython Notebook as a tool for technical and scientific computing visualization and data analysis this is the book for you This book will prove valuable for anyone that needs to do computations in an agile environment **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 **Blockchain Beyond Basics** Naresh R. Jasotani, 2022-12-29 This book introduces you

to the world of Blockchain with an interesting AI perspective to the Blockchain and with detailed associated videos to make concepts easier to understand This book provides you with hands on technical details to guide you to create your own smart contracts NFTs Tokens Flash loan algorithms and AI and Machine learning algorithms This book is aimed at newcomers to the concept of Blockchain enthusiasts explorists who would like to learn about the concepts of Blockchain in simple terms with easy to understand stories This book provides a practical guidance and approach for utilizing Blockchain and its associated technologies in the real world scenario You are not expected to be an expert in Solidity Web3 Javascript or Python at all What's inside The Story of Blockchain Solidity Programming Create your own tokens coins Create your own NFTs Web3 on node.js Web3 using python AI perspective to Blockchain Flash Loans Honestly speaking this book is meant for those lazy engineers aspiring blockchain solidity developers Web3 engineers experienced IT professionals in other fields who like the authors hate reading through lengthy books with several hundreds of pages of mathematical models and equations to even getting started with Blockchain Many of us are looking for a book with not more than 170 180 pages to gain a very fundamental understanding of the Blockchain ecosystems create your own contracts NFTs There are many books articles guides and documents published on Blockchain and most of them either focus on smart contracts solely or web3 reference books and most often they tend to be very lengthy spanning several hundred pages Of course they are aimed at serving an exhaustive content for readers to get a deep understanding on the subjects As you go through the book you will learn the concepts of Blockchain with simply explained stories use cases for each technology and then set up your development technical environment to dive deeper in Solidity Web3.js Web3.py Flash loans Tokens NFTs and last but not the least an AI perspective to the blockchain As you read through the book hopefully the myths of cryptocurrencies tokens NFTs would be debunked and you will get a very granular basic to an implementation level understanding and approach of developing decentralized applications on the blockchain Let us start learning **Social Media Shaping e-Publishing and Academia**

Nashrawan Taha, Rizik Al-Sayyed, Ja'far Alqatawna, Ali Rodan, 2017-04-01 This book presents the current state of the art in the field of e publishing and social media particularly in the Arabic context The book discusses trends and challenges in the field of e publishing along with their implications for academic publishing information services e learning and other areas where

electronic publishing is essential In particular it addresses 1 Applications of Social Media in Libraries and Information Centers 2 Use of Social Media and E publishing in E learning 3 Information Retrieval in Social Media and 4 Information Security in Social Media

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

Fundamentals of Data Science Sanjeev J. Wagh,Manisha S. Bhende,Anuradha D. Thakare,2021-09-26 Fundamentals of Data Science is designed for students academicians and practitioners with a complete walkthrough right from the foundational groundwork required to outlining all the concepts techniques and tools required to understand Data Science Data Science is an umbrella term for the non traditional techniques and technologies that are required to collect aggregate process and gain insights from massive datasets This book offers all the processes methodologies various steps like data acquisition pre process mining prediction and visualization tools for extracting insights from vast amounts of data by the use of various scientific methods algorithms and processes Readers will learn the steps necessary to create the application with SQL NoSQL Python R Matlab Octave and Tablue This book provides a stepwise approach to building solutions to data science applications right from understanding the fundamentals performing data analytics to writing source code All the concepts are discussed in simple English to help the community to become Data Scientist without much pre requisite knowledge Features Simple strategies for developing statistical models that analyze data and detect patterns trends and relationships in data sets Complete roadmap to Data Science approach with dedicatedsections which includes Fundamentals Methodology and Tools Focussed approach for learning and practice various Data Science Toolswith Sample code and examples for practice Information is presented in an accessible way for students researchers and academicians and professionals

Mastering The Art Of Data Analysis From Basics To Informed Decision-Making Space Learn,2023-11-02 Improve your decision making with this stripped down primer to data analytics Wish to broaden your skill set to include data analytics Are you having problems knowing where to begin This book gives you the vocabulary resources and fundamental techniques you need to think like a data scientist bit by bit and cell by cell In order to increase your data literacy each chapter adds to and links discrete knowledge blocks using the Lego set method You may go from knowing nothing about data analytics to confidently understanding and debating data issues with this step by step guide This Book Is for Whom Anyone interested in understanding data analytics should read this book because it doesn t assume any knowledge of complex math or data science terms This book is for you if you ve attempted to understand data analytics in the past but failed This book emphasizes experiential learning This contains two bonus Python coding exercises with free video content to guide you through both as well as visual and practical examples You will have the necessary skills by the end of the book to handle actual data issues in your business or day to day activities

Machine Learning

Fundamentals Amar Sahay,Rajeev Sahay,2025-03-18 Machine Learning Fundamentals provides a comprehensive overview of data science emphasizing machine learning ML This book covers ML fundamentals processes and applications that are used as industry standards Both supervised and unsupervised learning ML models are discussed Topics include data collection and feature engineering techniques as well as regression classification neural networks deep learning and clustering Motivated by the success of ML in various fields this book is designed for a wide audience coming from various disciplines such as engineering IT or business and is suitable for those getting started with ML for the first time This text can also serve as the main or supplementary text in any introductory data science course from any discipline offering real world applications and tools in all areas *Microsoft Certified Azure Fundamentals All-in-One Exam Guide (Exam AZ-900)* Jack Hyman,2021-08-27 A highly effective integrated self study system for the Microsoft Azure Fundamentals exam Prepare for the current version of the Microsoft Azure Fundamentals exam using the detailed information contained in this test preparation guide Written by a cloud computing expert and experienced author the book contains accurate practice questions step by step exercises and special elements that aid in learning and reinforce retention Microsoft Certified Azure Fundamentals All in One Exam Guide Exam AZ 900 features in depth coverage of every topic on the challenging exam You will explore core Azure services security compliance and trust Fulfilling the promise of the All in One series the guide serves as both a test preparation tool and an on the job reference for risk and compliance professionals 100% coverage of all objectives for the Microsoft Azure Fundamentals exam Contains hands on exercises and practical use cases for Microsoft Azure Online content includes practice exam software with 120 questions **Python for Programmers** Paul Deitel,Harvey Deitel,2019-03-15 The professional programmer s Deitel guide to Python with introductory artificial intelligence case studies Written for programmers with a background in another high level language Python for Programmers uses hands on instruction to teach today s most compelling leading edge computing technologies and programming in Python one of the world s most popular and fastest growing languages Please read the Table of Contents diagram inside the front cover and the Preface for more details In the context of 500 real world examples ranging from individual snippets to 40 large scripts and full implementation case studies you ll use the interactive IPython interpreter with code in Jupyter Notebooks to quickly master the latest Python coding idioms After covering Python Chapters 1 5 and a few key parts of Chapters 6 7 you ll be able to handle significant portions of the hands on introductory AI case studies in Chapters 11 16 which are loaded with cool powerful contemporary examples These include natural language processing data mining Twitter for sentiment analysis cognitive computing with IBM Watson™ supervised machine learning with classification and regression unsupervised machine learning with clustering computer vision through deep learning and convolutional neural networks deep learning with recurrent neural networks big data with Hadoop Spark™ and NoSQL databases the Internet of Things and more You ll also work directly or indirectly with cloud based services including Twitter Google Translate™ IBM Watson Microsoft Azure

OpenMapQuest PubNub and more Features 500 hands on real world live code examples from snippets to case studies IPython code in Jupyter Notebooks Library focused Uses Python Standard Library and data science libraries to accomplish significant tasks with minimal code Rich Python coverage Control statements functions strings files JSON serialization CSV exceptions Procedural functional style and object oriented programming Collections Lists tuples dictionaries sets NumPy arrays pandas Series DataFrames Static dynamic and interactive visualizations Data experiences with real world datasets and data sources Intro to Data Science sections AI basic stats simulation animation random variables data wrangling regression AI big data and cloud data science case studies NLP data mining Twitter IBM WatsonTM machine learning deep learning computer vision Hadoop SparkTM NoSQL IoT Open source libraries NumPy pandas Matplotlib Seaborn Folium SciPy NLTK TextBlob spaCy Textatistic Tweepy scikit learn Keras and more Accompanying code examples are available here http://ptgmedia.pearsoncmg.com/imprint_downloads/informit/bookreg/9780135224335/9780135224335_examples.zip Register your product for convenient access to downloads updates and or corrections as they become available See inside book for more information Computational Modeling and Visualization of Physical Systems with Python Jay Wang,2016-01-11 Computational Modeling by Jay Wang introduces computational modeling and visualization of physical systems that are commonly found in physics and related areas The authors begin with a framework that integrates model building algorithm development and data visualization for problem solving via scientific computing Through carefully selected problems methods and projects the reader is guided to learning and discovery by actively doing rather than just knowing physics

Python for Data Analysis 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 **Python Data Science Essentials** Alberto Boschetti,2018 The Python Data Science Essentials video series takes you through all you need to know to succeed in data science using Python Get insights into the core of Python data including the latest versions of Jupyter Notebook NumPy Pandas and scikit learn In this course you will delve into building your essential Python 3.6 data science toolbox using a single source approach that will allow to work with Python 2.7 as well Get to grips fast with data

munging and preprocessing and prepare for machine learning and visualization techniques Resource description page

Python for Data Analysis Guido Van Smit,2019-11-27 Get complete instructions for manipulating processing cleaning and crunching datasets in PythonPython for Data Analysis represents now one of the most interesting and useful applications among all the possible applications of Machine Learning and Artificial Intelligence This guidebook is the ultimate guide to learning insights and strategies to help you grow your business save time resources and energy or if you are looking for a new job but it requires a solid background in terms of processes and technologies involved It will walk you through the entire program from A to Z and offers a straightforward approach to Python with plenty of opportunities for hands on learning and improving your skills Inside you ll find What is and how Data Analysis works Essentials Python Libraries NumPy Pandas IPython and Jupyter Data Types in Python Text Analysis in Python 3 Analyze and manipulate regular and irregular time series data Practical applications to put into use today And so much more Installation and Setup If you re ready to fully grasp Python for Data Analysis this book is the perfect guide to help you [Practical DevOps and Cloud Engineering](#) [Practical DevOps and Cloud Engineering](#) [Practical DEVOPS and Cloud Engineering](#) [Practical DEVOPS and Cloud Engineering 2](#) Reskill Upskill Practice Workshop Microservices Architecture Design Develop Deploy DevOps Engineer Cloud DevOps Engineer keyword Thai novel Thai ebook hytexts idcpremier **Practical Data Science with Jupyter** Prateek Gupta,2021-03-01 Solve business problems with data driven techniques and easy to follow Python examples KEY FEATURES _ Essential coverage on statistics and data science techniques _ Exposure to Jupyter PyCharm and use of GitHub _ Real use cases best practices and smart techniques on the use of data science for data applications DESCRIPTION This book begins with an introduction to Data Science followed by the Python concepts The readers will understand how to interact with various database and Statistics concepts with their Python implementations You will learn how to import various types of data in Python which is the first step of the data analysis process Once you become comfortable with data importing you will clean the dataset and after that will gain an understanding about various visualization charts This book focuses on how to apply feature engineering techniques to make your data more valuable to an algorithm The readers will get to know various Machine Learning Algorithms concepts Time Series data and a few real world case studies This book also presents some best practices that will help you to be industry ready This book focuses on how to practice data science techniques while learning their concepts using Python and Jupyter This book is a complete answer to the most common question that how can you get started with Data Science instead of explaining Mathematics and Statistics behind the Machine Learning Algorithms WHAT YOU WILL LEARN _ Rapid understanding of Python concepts for data science applications _ Understand and practice how to run data analysis with data science techniques and algorithms _ Learn feature engineering dealing with different datasets and most trending machine learning algorithms _ Become self sufficient to perform data science tasks with the best tools and techniques WHO THIS BOOK IS FOR This book is for a beginner or an experienced professional who is thinking about a

career or a career switch to Data Science Each chapter contains easy to follow Python examples

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Learning Practical Data Analysis Using Jupyter Notebook Marc Wintjen, 2020-06-19

Understand data analysis concepts to make accurate decisions based on data using Python programming and Jupyter Notebook

Key Features

- Find out how to use Python code to extract insights from data using real world examples
- Work with structured data and free text sources to answer questions and add value using data
- Perform data analysis from scratch with the help of clear explanations for cleaning transforming and visualizing data

Book Description

Data literacy is the ability to read analyze work with and argue using data

Data analysis is the process of cleaning and modeling your data to discover useful information

This book combines these two concepts by sharing proven techniques and hands on examples so that you can learn how to communicate effectively using data

After introducing you to the basics of data analysis using Jupyter Notebook and Python the book will take you through the fundamentals of data

Packed with practical examples this guide will teach you how to clean wrangle analyze and visualize data to gain useful insights and you ll discover how to answer questions using data with easy to follow steps

Later chapters teach you about storytelling with data using charts such as histograms and scatter plots

As you advance you ll understand how to work with unstructured data using natural language processing NLP techniques to perform sentiment analysis

All the knowledge you gain will help you discover key patterns and trends in data using real world examples

In addition to this you will learn how to handle data of varying complexity to perform efficient data analysis using modern Python libraries

By the end of this book you ll have gained the practical skills you need to analyze data with confidence

What you will learn

- Understand the importance of data literacy and how to communicate effectively using data
- Find out how to use Python packages such as NumPy pandas Matplotlib and the Natural Language Toolkit NLTK for data analysis
- Wrangle data and create DataFrames using pandas
- Produce charts and data visualizations using time series datasets
- Discover relationships and how to join data together using SQL
- Use NLP techniques to work with unstructured data to create sentiment analysis models
- Discover patterns in real world datasets that provide accurate insights

Who this book is for

This book is for aspiring data analysts and data scientists looking for hands on tutorials and real world examples to understand data analysis concepts using SQL Python and Jupyter Notebook

Anyone looking to evolve their skills to become data driven personally and professionally will also find this book useful

No prior knowledge of data analysis or programming is required to get started with this book

Essential Machine Learning and AI with Python and Jupyter Notebook

Noah Gift, 2018 8 Hours of Video Instruction Learn just the essentials of Python based Machine Learning on AWS and Google Cloud Platform with Jupyter Notebook Description This 8 hour LiveLesson video course shows how AWS and Google Cloud Platform can be used to solve real world business problems in Machine Learning and AI Noah Gift covers how to get started with Python via Jupyter Notebook and then proceeds to dive into nuts and bolts of Data Science libraries in Python including Pandas Seaborn scikit learn and TensorFlow EDA or exploratory data analysis is at the heart of the Machine Learning therefore this series also highlights how to perform EDA in Python and Jupyter Notebook Software engineering fundamentals tie the series together with key instruction on linting testing command line tools data engineering APIs and more The supporting code for this LiveLesson is located at <http://www.informit.com/store/essential-machine-learning-and-ai-with-python-and-jupyter> 9780135261095 About the Instructor Noah Gift is lecturer and consultant at UC Davis Graduate School of Management in the MSBA program He is teaching graduate machine learning and consulting on Machine Learning and Cloud Architecture for students and faculty He has published close to 100 technical publications including two books on subjects ranging from Cloud Machine Learning to DevOps He is also a certified AWS Solutions Architect and an SME Subject Matter Expert for Machine Learning for AWS He has an MBA from UC Davis an MS in Computer Information Systems from Cal State Los Angeles and a BS in Nutritional Science from Cal Poly San Luis Obispo Professionally Noah has approximately 20 years of experience of programming in Python and is a member of the Python Software Foundation He has worked in roles ranging from CTO General Manager Consulting CTO and Cloud Architect This experience has been with a wide variety of companies including ABC Caltech Sony Imageworks Disney Feature Animation Weta Digital AT T Turner Studios and Linden Lab In the past ten years he has been responsible for shipping many new products at multiple companies that generated millions of dollars of revenue and had global scale He is the founder of Pragmatic AI Labs a training consulting and AI ML product company that specializes in cloud native Machine Learning and AI Solutions Skill Level Beginner What You Will Learn Introduces Data Science concepts and Python funda **Jupyterlab Quick Start Guide** Melissa Ferrari, Lindsay

Richman, Dan Toomey, 2019-12-20 Get to grips with the basics of JupyterLab and its web interface with the help of this quick start guide Key Features Manage JupyterLab kernels code consoles and terminals and share your work over the cloud Organize your data solutions within JupyterLab Install and configure extensions on JupyterLab using easy to follow examples Book Description JupyterLab is a web based interface and the natural evolution of Jupyter Notebook This guide will take you through the core commands and functionalities of JupyterLab and help you enhance your JupyterLab productivity Starting with the installation of JupyterLab this book will give you an overview of its features and the variety of problems it solves You ll see how you can work with external files inside the platform and understand how to use the code console and terminal This will help you have distinct control over the scripts you work with As you progress you ll get to grips with the extensions available in JupyterLab and gain insights into adding extensions to introduce new functionality in the interface This book also

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Learning IPython for Interactive Computing and Data Visualization Cyrille Rossant, 2015-10-21 Get started with Python for data analysis and numerical computing in the Jupyter notebook About This Book Learn the basics of Python in the Jupyter Notebook Analyze and visualize data with pandas NumPy matplotlib and seaborn Perform highly efficient numerical computations with Numba Cython and ipyparallel Who This Book Is For This book targets students teachers researchers engineers analysts journalists hobbyists and all data enthusiasts who are interested in analyzing and visualizing real world datasets If you are new to programming and data analysis this book is exactly for you If you re already familiar with another language or analysis software you will also appreciate this introduction to the Python data analysis platform Finally there are more technical topics for advanced readers No prior experience is required this book contains everything you need to know What You Will Learn Install Anaconda and code in Python in the Jupyter Notebook Load and explore datasets interactively Perform complex data manipulations effectively with pandas Create engaging data visualizations with matplotlib and seaborn Simulate mathematical models with NumPy Visualize and process images interactively in the Jupyter Notebook with scikit image Accelerate your code with Numba Cython and IPython parallel Extend the Notebook interface with HTML JavaScript and D3 In Detail Python is a user friendly and powerful programming language IPython offers a convenient interface to the language and its analysis libraries while the Jupyter Notebook is a rich environment well adapted to data science and visualization Together these open source tools are widely used by beginners and experts around the world and in a huge variety of fields and endeavors This book is a beginner friendly guide to the Python data analysis platform After an introduction to the Python language IPython and the Jupyter Notebook you will learn how to analyze and visualize data on real world examples how to create graphical user interfaces for image processing in the Notebook and how to perform fast numerical computations for scientific simulations with NumPy Numba Cython and ipyparallel By the end of this book you will be able to perform in depth analyses of all sorts of data Style and approach This is a hands on beginner friendly guide to analyze and visualize data on

real world examples with Python and the Jupyter Notebook

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