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NumPy Essentials

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Numpy Essentials

Ying Liu



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of real world projects covering initial data collection data analysis and production This Python book starts by taking you through the basics of programming right from variables and data types to classes and functions You ll learn how to write idiomatic code and test and debug it and discover how you can create packages or use the range of built in ones You ll also be introduced to the extensive ecosystem of Python data science packages including NumPy Pandas scikit learn Altair and Datashader Furthermore you ll be able to perform data analysis train models and interpret and communicate the results Finally you ll get to grips with structuring and scheduling scripts using Luigi and sharing your machine learning models with the world as a microservice By the end of the book you ll have learned not only how to implement Python in data science projects but also how to maintain and design them to meet high programming standards What you will learnCode in Python using Jupyter and VS CodeExplore the basics of coding loops variables functions and classesDeploy continuous integration with Git Bash and DVCGet to grips with Pandas NumPy and scikit learnPerform data visualization with Matplotlib Altair and DatashaderCreate a package out of your code using poetry and test it with PyTestMake your machine learning model accessible to anyone with the web APIWho this book is for If you want to learn Python or data science in a fun and engaging way this book is for you You ll also find this book useful if you re a high school student researcher analyst or anyone with little or no coding experience with an interest in the subject and courage to learn fail and learn from failing A basic understanding of how computers work will be useful

Python Data Analysis Avinash Navlani,Armando Fandango,Ivan Idris,2021-02-05 Understand data analysis pipelines using machine learning algorithms and techniques with this practical guide Key FeaturesPrepare and clean your data to use it for exploratory analysis data manipulation and data wranglingDiscover supervised unsupervised probabilistic and Bayesian machine learning methodsGet to grips with graph processing and sentiment analysisBook Description Data analysis enables you to generate value from small and big data by discovering new patterns and trends and Python is one of the most popular tools for analyzing a wide variety of data With this book you ll get up and running using Python for data analysis by exploring the different phases and methodologies used in data analysis and learning how to use modern libraries from the Python ecosystem to create efficient data pipelines Starting with the essential statistical and data analysis fundamentals using Python you ll perform complex data analysis and modeling data manipulation data cleaning and data visualization using easy to follow examples You ll then understand how to conduct time series analysis and signal processing using ARMA models As you advance you ll get to grips with smart processing and data analytics using machine learning algorithms such as regression classification Principal Component Analysis PCA and clustering In the concluding chapters you ll work on real world examples to analyze textual and image data using natural language processing NLP and image analytics techniques respectively Finally the book will demonstrate parallel computing using Dask By the end of this data analysis book you ll be equipped with the skills you need to prepare data for analysis and create meaningful data visualizations for forecasting values from data What you will learnExplore data

science and its various process models Perform data manipulation using NumPy and pandas for aggregating cleaning and handling missing values Create interactive visualizations using Matplotlib Seaborn and Bokeh Retrieve process and store data in a wide range of formats Understand data preprocessing and feature engineering using pandas and scikit learn Perform time series analysis and signal processing using sunspot cycle data Analyze textual data and image data to perform advanced analysis Get up to speed with parallel computing using Dask Who this book is for This book is for data analysts business analysts statisticians and data scientists looking to learn how to use Python for data analysis Students and academic faculties will also find this book useful for learning and teaching Python data analysis using a hands on approach A basic understanding of math and working knowledge of the Python programming language will help you get started with this book

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extensive libraries for numerical computing data analysis and visualization We cover fundamental programming concepts and gradually introduce advanced techniques specific to scientific applications From mastering Python basics to exploring advanced topics like machine learning and symbolic mathematics each chapter provides a structured and hands on learning experience Real world case studies practical examples and exercises ensure readers grasp theoretical concepts and gain practical skills Throughout the book Python becomes a tool of empowerment enabling readers to unravel complex scientific data model intricate phenomena and contribute meaningfully to their fields Introduction to Scientific Programming with Python is an invaluable companion for harnessing Python s potential in scientific inquiry and discovery By the end readers will have a robust foundation in Python and the confidence to apply scientific programming methodologies to real world problems This book unlocks the door to a world where Python drives exploration discovery and innovation in science

Profound Python Data Science Önder Teker,2023-11-26 The book covers data science topics in Python language Libraries such as Numpy Matplotlib Pandas Scipy are explained in detail In addition to data science the book contains the usage of many libraries for developers of Python The basic knowledge needed to use Artificial Intelligence Machine Learning Natural Language Processing Computer Vision features are covered The book contains tools for data analysis and business intelligence *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 DescriptionEmbark 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

Python Programming Dr. Venkata Kiran Kumar Ravi, Dr. C. V. Lakshmi Narayana, Amit Joshi, Mrs. Chethana T.V ,2025-08-26 Python Programming offers a comprehensive guide to learning Python covering fundamentals data structures object oriented programming and advanced topics Ideal for beginners and experienced developers it emphasizes practical examples problem solving and real world applications equipping readers with the skills to build robust software automate tasks and develop data driven solutions efficiently

Python for Data Analysis Wes McKinney,2022-08-12 Get the definitive handbook for manipulating processing cleaning and crunching datasets in Python Updated for Python 3 10 and pandas 1 4 the third 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 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 Jupyter notebook and IPython shell for exploratory computing Learn basic and advanced features in NumPy Get started with data analysis tools in the pandas library Use flexible tools to load clean transform merge and reshape data Create informative visualizations with matplotlib Apply the pandas groupby facility to slice dice and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real world data analysis problems with thorough detailed examples

Python for ArcGIS Pro Silas Toms,Bill Parker,Dr. Christopher Tucker,Rene Rubalcava,2022-04-29 Extend your ArcGIS expertise by unlocking the world of Python programming A fully hands on guide that takes you through exercise after exercise using real data and real problems NOTE This book is compatible with ArcGIS Pro 2 9 Key FeaturesLearn the core components of the two Python modules for ArcGIS ArcPy and ArcGIS API for PythonUse ArcPy pandas NumPy and ArcGIS in ArcGIS Pro Notebooks to manage and analyze geospatial data at scaleIntegrate with ArcGIS Online using Python to publish and manage dataBook Description Integrating Python into your day to day ArcGIS work is highly recommended when dealing with large amounts of geospatial data Python for ArcGIS Pro aims to help you get your work done faster with greater repeatability and higher confidence in your results Starting from programming basics and building in complexity two experienced ArcGIS professionals turned Python programmers teach you how to incorporate scripting at each step automating the production of maps for print managing data between ArcGIS Pro

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The Statistics and Calculus with Python Workshop Peter Farrell, Alvaro Fuentes, Ajinkya Sudhir Kolhe, Quan Nguyen, Alexander Joseph Sarver, Marios Tsatsos, 2020-08-18 With examples and activities that help you achieve real results applying calculus and statistical methods relevant to advanced data science has never been so easy Key Features Discover how most programmers use the main Python libraries when performing statistics with Python Use descriptive statistics and visualizations to answer business and scientific questions Solve complicated calculus problems such as arc length and solids of revolution using derivatives and integrals Book Description Are you looking to start developing artificial intelligence applications Do you need a refresher on key mathematical concepts Full of engaging practical exercises The Statistics and Calculus with Python Workshop will show you how to apply your understanding of advanced mathematics in the context of Python The book begins by giving you a high level overview of the libraries you'll use while performing statistics with Python As you progress you'll perform various mathematical tasks using the Python programming language such as solving algebraic functions with Python starting with basic functions and then working through transformations and solving equations Later chapters in the book will cover statistics and calculus concepts and how to use them to solve problems and gain useful insights Finally you'll study differential equations with an emphasis on numerical methods and learn about algorithms that directly calculate values of functions By the end of this book you'll have learned how to apply essential statistics and calculus concepts to develop robust Python applications that solve business challenges What you will learn Get to grips with the fundamental mathematical functions in Python Perform calculations on

tabular datasets using pandas Understand the differences between polynomials rational functions exponential functions and trigonometric functions Use algebra techniques for solving systems of equations Solve real world problems with probability Solve optimization problems with derivatives and integrals Who this book is for If you are a Python programmer who wants to develop intelligent solutions that solve challenging business problems then this book is for you To better grasp the concepts explained in this book you must have a thorough understanding of advanced mathematical concepts such as Markov chains Euler s formula and Runge Kutta methods as the book only explains how these techniques and concepts can be implemented in Python

Learning NumPy Array Ivan Idris,2014-06-13 A step by step guide packed with examples of practical numerical analysis that will give you a comprehensive but concise overview of NumPy This book is for programmers scientists or engineers who have basic Python knowledge and would like to be able to do numerical computations with Python

NumPy: Beginner's Guide Ivan Idris,2015-06-24 In today s world of science and technology it s all about speed and flexibility When it comes to scientific computing NumPy tops the list NumPy will give you both speed and high productivity This book will walk you through NumPy with clear step by step examples and just the right amount of theory The book focuses on the fundamentals of NumPy including array objects functions and matrices each of them explained with practical examples You will then learn about different NumPy modules while performing mathematical operations such as calculating the Fourier transform finding the inverse of a matrix and determining eigenvalues among many others This book is a one stop solution to knowing the ins and outs of the vast NumPy library empowering you to use its wide range of mathematical features to build efficient high speed programs

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

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

Introduction to Data Science with Python Mark Smart,2018-11-09 This book is a guide for you on how to use Pandas and Numpy in Python programming language for data analysis The author begins by helping you familiarize yourself with the basics of data science Numpy and Pandas You are guided on how to work with Numpy arrays and how to manipulate them The various operations that you can perform on your data via the Pandas library have been discussed You will also know how to create various data structures in Pandas for data storage Data from the environment is dirty The process of cleaning such data has been discussed This involves handling outliers missing values etc The author guides you on

how to work with data in various types of storage formats Examples include MS Excel CSV files JSON etc You are also guided on how to calculate various measures for your data The process of visualizing data has been explored in detail About this book Getting Started with Python for Data Science Working with Numpy Working with Pandas Cleansing Data Working with CSV Data Working with XLS Data Data Wrangling Measures of Central Tendency Calculating Variance Normal Distribution Working with JSON Data Data Visualization Tags data science with python python pandas programming numpy pandas pandas python pandas in python numpy in python numpy python numpy pandas data science ms excel books json python for data science pivot tables excel pivot tables data visualisation data visualisation python data visualisation for dummies data visualisation excel algorithms for data science *Machine Learning and Deep Learning Using Python and TensorFlow* Venkata Reddy Konasani, Shailendra Kadre, 2021-04-29 Understand the principles and practices of machine learning and deep learning This hands on guide lays out machine learning and deep learning techniques and technologies in a style that is approachable using just the basic math required Written by a pair of experts in the field Machine Learning and Deep Learning Using Python and TensorFlow contains case studies in several industries including banking insurance e commerce retail and healthcare The book shows how to utilize machine learning and deep learning functions in today s smart devices and apps You will get download links for datasets code and sample projects referred to in the text Coverage includes Machine learning and deep learning concepts Python programming and statistics fundamentals Regression and logistic regression Decision trees Model selection and cross validation Cluster analysis Random forests and boosting Artificial neural networks TensorFlow and Keras Deep learning hyperparameters Convolutional neural networks Recurrent neural networks and long short term memory **The Numpy Pocketbook** Silas Meadowlark, 2023-08-21 The Numpy Pocketbook Essentials on the Go is your quick reference guide to mastering the nuances of the Python library Numpy Whether you re a seasoned programmer or just dipping your toes into the world of data analysis and computational programming this pocketbook is tailored just for you Dive into this concise guide and explore Getting Started with Numpy An introduction for those new to this powerful library Mastering Arrays Dive deep into the heart of Numpy s functionality Shape Transform Learn to manipulate and reshape your data with finesse Insights from Data Extract valuable insights from your datasets Matrix Wonders Navigate the magic of linear algebra and matrix computations Tips Tricks Pitfalls Avoid common mistakes and harness expert techniques Numpy in the Wild Real world applications and case studies using Numpy Packed with golden nuggets of information this pocketbook ensures you re always equipped with the essentials wherever you go So gear up and get ready to harness the full potential of Numpy with this handy companion [NumPy Beginner's Guide \(Second Edition\)](#) Ivan Idris, 2013-04-25 The book is written in beginner s guide style with each aspect of NumPy demonstrated with real world examples and required screenshots If you are a programmer scientist or engineer who has basic Python knowledge and would like to be able to do numerical computations with Python this book is for you No prior knowledge of NumPy is required

Maintenance Engineering Handbook, Ninth Edition Keith Mobley, 2025-08-22 The most complete and current guide to every aspect of maintenance engineering updated to reflect the latest advances in the industry The most comprehensive resource of its kind Maintenance Engineering Handbook has long been a staple for engineers managers and technicians seeking current advice on everything from tools and techniques to planning and scheduling Since the last edition was published there have been exponential technology advancements that directly affect maintenance and maintenance engineering function Recent changes in technology especially those of predictive analytics wireless cloud base data acquisition and smart sensors have radically changed the landscape of both engineering and maintenance management This updated edition integrates these advances into a comprehensive approach to maintenance management with proven best practices for maintenance repair and overhaul MRO inventory management root cause analysis and performance management Featuring contributions from noted experts in the field Maintenance Engineering Handbook Ninth Edition will help engineers reduce excessive downtime and high maintenance costs by detecting and mitigating repetitive failures

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