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Numpy Essentials

L. Felipe Martins



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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

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Introduction to Scientific Programming with Python Pankaj Jayaraman, 2025-02-20 Introduction to Scientific Programming with Python offers an immersive exploration into the dynamic field of scientific programming using Python We cater to a diverse audience serving as an entry point for novices and a valuable resource for seasoned practitioners in scientific computing Python s popularity in scientific circles stems from its readability versatility and

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

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

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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

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 and ArcGIS Online creating custom script tools for sharing and then running data analysis and visualization on top of the ArcGIS geospatial library all using Python You ll use ArcGIS Pro Notebooks to explore and analyze geospatial data and write data engineering scripts to manage ongoing data processing and data transfers This exercise based book also includes three rich real world case studies giving you an opportunity to apply and extend the concepts you studied earlier Irrespective of your expertise level with Esri software or the Python language you ll benefit from this book s hands on approach which takes you through the major uses of Python for ArcGIS Pro to boost your ArcGIS productivity What you will learnAutomate map production to make and edit maps at scale cutting down on repetitive tasksPublish map layer data to ArcGIS OnlineAutomate data updates using the ArcPy Data Access module and cursorsTurn your scripts into script tools for ArcGIS ProLearn how to

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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

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

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

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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

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