



Community Experience Distilled

Learning NumPy Array

Supercharge your scientific Python computations by understanding how to use the NumPy library effectively

Ivan Idris

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Learning Numpy Array Idris Ivan

Armando Fandango



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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 *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 **Python Data Analysis** Ivan Idris, 2014-10-28 This book is

for programmers scientists and engineers who have knowledge of the Python language and know the basics of data science It is for those who wish to learn different data analysis methods using Python and its libraries This book contains all the basic ingredients you need to become an expert data analyst **Numerical Python** Robert Johansson, 2024-09-27 Learn how to

leverage the scientific computing and data analysis capabilities of Python its standard library and popular open source numerical Python packages like NumPy SymPy SciPy matplotlib and more This book demonstrates how to work with mathematical modeling and solve problems with numerical symbolic and visualization techniques It explores applications in science engineering data analytics and more Numerical Python Third Edition presents many case study examples of applications in fundamental scientific computing disciplines as well as in data science and statistics This fully revised edition updated for each library's latest version demonstrates Python's power for rapid development and exploratory computing due to its simple and high level syntax and many powerful libraries and tools for computation and data analysis After reading this book readers will be familiar with many computing techniques including array based and symbolic computing visualization and numerical file I/O equation solving optimization interpolation and integration and domain specific computational

problems such as differential equation solving data analysis statistical modeling and machine learning What You ll Learn Work with vectors and matrices using NumPy Review Symbolic computing with SymPy Plot and visualize data with Matplotlib Perform data analysis tasks with Pandas and SciPy Understand statistical modeling and machine learning with statsmodels and scikit learn Optimize Python code using Numba and Cython Who This Book Is For Developers who want to understand how to use Python and its ecosystem of libraries for scientific computing and data analysis

Data Analysis for Corporate Finance Mariano F. Scandizzo CFA CQF,2021-12-07 Have you ever tried to learn to code or to use advanced visualization tools If so I am sure you know how daunting it is to learn by yourself Generally tools and books follow an encyclopedism approach i e books attempt to teach every feature about a coding language or tool This implies hundreds if not thousands of pages simply to tackle a single topic whether SQL Python MS Excel MS PowerBI you name it The journey from zero to hero to become proficient using numerical and visualization tools to take your career to the next level becomes an ordeal that requires years and thousands of pages just to begin putting the pieces of the puzzle together However the reality is that you do not need to learn absolutely every available feature to use those tools and deliver a superior project Rather than teaching you about the forest I will discuss specific trees Why Because once you become familiar and confident nurturing a few trees growing a forest becomes a simple process of planting new trees This book provides the fundamental blocks so that you can learn about financial data science and take these tools and start using them tomorrow The scope of the selected tools will empower you to see a considerable improvement in your financial modeling skills The book is designed to provide corporate finance professionals the ability to start immediately using advance tools for concrete real world tasks Therefore this book is all about functionalism It is about providing you with tools that will put you to work and dramatically change the way you analyze data Once you see the benefits it will become natural to keep expanding your domain knowledge leveraging today s endless available educational resources

Building Machine Learning Systems with Python Willi Richert,2013-01-01 This is a tutorial driven and practical but well grounded book showcasing good Machine Learning practices There will be an emphasis on using existing technologies instead of showing how to write your own implementations of algorithms This book is a scenario based example driven tutorial By the end of the book you will have learnt critical aspects of Machine Learning Python projects and experienced the power of ML based systems by actually working on them This book primarily targets Python developers who want to learn about and build Machine Learning into their projects or who want to pro

Building Machine Learning Systems with Python Luis Pedro Coelho,Willi Richert,Matthieu Brucher,2018-07-31 Get more from your data by creating practical machine learning systems with Python Key Features Develop your own Python based machine learning system Discover how Python offers multiple algorithms for modern machine learning systems Explore key Python machine learning libraries to implement in your projects Book Description Machine learning allows systems to learn things without being explicitly programmed to do so Python is one of

the most popular languages used to develop machine learning applications which take advantage of its extensive library support This third edition of Building Machine Learning Systems with Python addresses recent developments in the field by covering the most used datasets and libraries to help you build practical machine learning systems Using machine learning to gain deeper insights from data is a key skill required by modern application developers and analysts alike Python being a dynamic language allows for fast exploration and experimentation This book shows you exactly how to find patterns in your raw data You will start by brushing up on your Python machine learning knowledge and being introduced to libraries You ll quickly get to grips with serious real world projects on datasets using modeling and creating recommendation systems With Building Machine Learning Systems with Python you ll gain the tools and understanding required to build your own systems all tailored to solve real world data analysis problems By the end of this book you will be able to build machine learning systems using techniques and methodologies such as classification sentiment analysis computer vision reinforcement learning and neural networks What you will learn Build a classification system that can be applied to text images and sound Employ Amazon Web Services AWS to run analysis on the cloud Solve problems related to regression using scikit learn and TensorFlow Recommend products to users based on their past purchases Understand different ways to apply deep neural networks on structured data Address recent developments in the field of computer vision and reinforcement learning Who this book is for Building Machine Learning Systems with Python is for data scientists machine learning developers and Python developers who want to learn how to build increasingly complex machine learning systems You will use Python s machine learning capabilities to develop effective solutions Prior knowledge of Python programming is expected **Numpy**

Cookbook - Second Edition Ivan Idris,2015-04-30 [Python](#) Posts & Telecom Press,Armando

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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 learn Explore 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

NumPy Cookbook Ivan Idris, 2012-10-25 Written in Cookbook style the code examples will take your Numpy skills to the next level This book will take Python developers with basic Numpy skills to the next level through some practical recipes

Python: End-to-end Data Analysis Phuong Vothihong, Martin Czygan, Ivan Idris, Magnus Vilhelm Persson, Luiz Felipe Martins, 2017-05-31 Leverage the power of Python to clean scrape analyze and visualize your data About This Book Clean format and explore your data using the popular Python libraries and get valuable insights from it Analyze big data sets create attractive visualizations manipulate and process various data types using NumPy SciPy and matplotlib and more Packed with easy to follow examples to develop advanced computational skills for the analysis of complex data Who This Book Is For This course is for developers analysts and data scientists who want to learn data analysis from scratch This course will provide you with a solid foundation from which to analyze data with varying complexity A working knowledge of Python and a strong interest in playing with your data is recommended What You Will Learn Understand the importance of data analysis and master its processing steps Get comfortable using Python and its associated data analysis libraries such as Pandas NumPy and SciPy Clean and transform your data and apply advanced statistical analysis to create attractive visualizations Analyze images and time series data Mine text and analyze social networks Perform web scraping and work with different databases Hadoop and Spark Use statistical models to discover patterns in data Detect similarities and differences in data with clustering Work with Jupyter Notebook to produce publication ready figures to be included in reports 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 [Python Data Analysis](#) Armando Fandango,2017-03-27 Learn how to apply powerful data analysis techniques with popular open source Python modules About This Book Find manipulate and analyze your data using the Python 3.5 libraries Perform advanced high performance linear algebra and mathematical calculations with clean and efficient Python code An easy to follow guide with realistic examples that are frequently used in real world data analysis projects Who This Book Is For This book is for programmers scientists and engineers who have the knowledge of Python and know the basics of data science It is for those who wish to learn different data analysis methods using Python 3.5 and its libraries This book contains all the basic ingredients you need to become an expert data analyst What You Will Learn Install open source Python modules such as NumPy SciPy Pandas statsmodels scikit learn theano keras and tensorflow on various platforms Prepare and clean your data and use it for exploratory analysis Manipulate your data with Pandas Retrieve and store your data from RDBMS NoSQL and distributed filesystems such as HDFS and HDF5 Visualize your data with open source libraries such as matplotlib bokeh and plotly Learn about various machine learning methods such as supervised unsupervised probabilistic and Bayesian Understand signal processing and time series data analysis Get to grips with graph processing and social network analysis In Detail Data analysis techniques generate useful insights from small and large volumes of data Python with its strong set of libraries has become a popular platform to conduct various data analysis and

predictive modeling tasks With this book you will learn how to process and manipulate data with Python for complex analysis and modeling We learn data manipulations such as aggregating concatenating appending cleaning and handling missing values with NumPy and Pandas The book covers how to store and retrieve data from various data sources such as SQL and NoSQL CSV files and HDF5 We learn how to visualize data using visualization libraries along with advanced topics such as signal processing time series textual data analysis machine learning and social media analysis The book covers a plethora of Python modules such as matplotlib statsmodels scikit learn and NLTK It also covers using Python with external environments such as R Fortran C C and Boost libraries Style and approach The book takes a very comprehensive approach to enhance your understanding of data analysis Sufficient real world examples and use cases are included in the book to help you grasp the concepts quickly and apply them easily in your day to day work Packed with clear easy to follow examples this book will turn you into an ace data analyst in no time

NumPy 1.5 Ivan Idris, 2011 The book is written in beginner's guide style with each aspect of NumPy demonstrated by real world examples There is appropriate explained code with the required screenshots thrown in for the novice This book is for the programmer scientist or engineer who has basic Python knowledge and would like to be able to do numerical computations with Python

NumPy Ivan Idris, 2015 Build efficient high speed programs using the high performance NumPy mathematical library In Detail 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

What You Will Learn Install NumPy matplotlib SciPy and IPython on various operating systems Use NumPy array objects to perform array operations Familiarize yourself with commonly used NumPy functions Use NumPy matrices for matrix algebra Work with the NumPy modules to perform various algebraic operations Test NumPy code with the numpy testing module Plot simple plots subplots histograms and more with matplotlib Downloading the example code for this book You can download the example code files for all Packt books you have purchased from your account at <http://www.PacktPub.com> If you purchased this book elsewhere you can visit <http://www.PacktPub.com> support and register to have the files e mailed directly to you

Numpy Essentials Liang-Hua Chin, Tanmay Datta, 2016-04-28 Boost your scientific and analytic capabilities in no time at all by discovering how to build real world applications with NumPy About This Book Optimize your Python scripts with powerful NumPy modules Explore the vast opportunities to build outstanding scientific analytical modules by yourself Packed with rich examples to help you master

NumPy arrays and universal functions

Who This Book Is For If you are an experienced Python developer who intends to drive your numerical and scientific applications with NumPy this book is for you Prior experience or knowledge of working with the Python language is required

What You Will Learn

- Manipulate the key attributes and universal functions of NumPy
- Utilize matrix and mathematical computation using linear algebra modules
- Implement regression and curve fitting for models
- Perform time frequency spectral density analysis using the Fourier Transform modules
- Collate with the distutils and setuptools modules used by other Python libraries
- Establish Cython with NumPy arrays
- Write extension modules for NumPy code using the C API
- Build sophisticated data structures using NumPy array with libraries such as Panda and Scikits

In Detail

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 gives you both the speed and high productivity you need This book will walk you through NumPy using clear step by step examples and just the right amount of theory We will guide you through wider applications of NumPy in scientific computing and will then focus 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 solving linear systems of equations interpolation extrapolation regression and curve fitting and evaluating integrals and derivatives We will also introduce you to using Cython with NumPy arrays and writing extension modules for NumPy code using the C API This book will give you exposure to the vast NumPy library and help you build efficient high speed programs using a wide range of mathematical features

Style and approach

This quick guide will help you get to grips with the nitty gritty of NumPy using with practical programming examples Each topic is explained in both theoretical and practical ways with hands on examples providing you efficient way of learning and adequate knowledge to support your professional work

Python Data Science Handbook Jake

VanderPlas, 2016-11-21

For many researchers Python is a first class tool mainly because of its libraries for storing manipulating and gaining insight from data Several resources exist for individual pieces of this data science stack but only with the Python Data Science Handbook do you get them all IPython NumPy Pandas Matplotlib Scikit Learn and other related tools Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for tackling day to day issues manipulating transforming and cleaning data visualizing different types of data and using data to build statistical or machine learning models Quite simply this is the must have reference for scientific computing in Python With this handbook you'll learn how to use IPython and Jupyter provide computational environments for data scientists using Python NumPy includes the ndarray for efficient storage and manipulation of dense data arrays in Python Pandas features the DataFrame for efficient storage and manipulation of labeled columnar data in Python Matplotlib includes capabilities for a flexible range of data visualizations in Python Scikit Learn for efficient and clean Python implementations of the most important and established machine learning algorithms

Python Data Science Handbook

Jake VanderPlas, 2022-12-06 Python is a first class tool for many researchers primarily because of its libraries for storing manipulating and gaining insight from data. Several resources exist for individual pieces of this data science stack but only with the new edition of Python Data Science Handbook do you get them all: IPython, NumPy, pandas, Matplotlib, scikit-learn and other related tools. Working scientists and data crunchers familiar with reading and writing Python code will find the second edition of this comprehensive desk reference ideal for tackling day to day issues: manipulating, transforming and cleaning data; visualizing different types of data; and using data to build statistical or machine learning models. Quite simply, this is the must have reference for scientific computing in Python. With this handbook you'll learn how IPython and Jupyter provide computational environments for scientists using Python. NumPy includes the ndarray for efficient storage and manipulation of dense data arrays. Pandas contains the DataFrame for efficient storage and manipulation of labeled columnar data. Matplotlib includes capabilities for a flexible range of data visualizations. Scikit-learn helps you build efficient and clean Python implementations of the most important and established machine learning algorithms.

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