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# 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

**Ivan Idris**



## **Learning Numpy Array Idris Ivan:**

*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

*Learning Numpy Array* Ivan Idris, 2014-06-16 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

*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

*Numpy Cookbook - Second Edition* Ivan Idris, 2015-04-30

*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

*Numerical Python* Robert Johansson, 2018-12-24 Leverage the numerical and mathematical modules in Python and its standard library as well as popular open source numerical Python packages like NumPy SciPy FiPy matplotlib and more This fully revised edition updated with the latest details of each package and changes to Jupyter projects demonstrates how to numerically compute solutions and mathematically model applications in big data cloud computing financial engineering business management and more Numerical Python Second Edition presents many brand new case study examples of applications in data science and statistics using Python along with extensions to many previous examples Each of these demonstrates the power of Python for rapid development and exploratory computing due to its simple and high level syntax and multiple options for 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 Plot and visualize data with Matplotlib Perform data analysis tasks with Pandas and SciPy Review 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 related ecosystem for numerical computing

**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

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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

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*Python* Posts & Telecom Press, Armando Fandango, 2024-02-28 Python Key Features 3 Book Description Python Python Python 12 Python NumPy Pandas Python 3 Python Python Python What will you learn Python NumPy Pandas Who this book is for Python Python

*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 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 Features Prepare and clean your data to use it for exploratory analysis data manipulation and data wrangling Discover supervised unsupervised probabilistic and Bayesian machine learning methods Get to grips with graph processing and sentiment analysis Book 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 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

**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

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[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

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*Python Data Science* Jessica Rizzo,2019-08-25 If you re tired of licensing third party software for data analysis Python Data Science will help you do it for yourself Recently more and more companies are learning that they need to make DATA DRIVEN decisions And with big data and data science on the rise we now have more data than we know what to do with In fact without a doubt you have already experienced data science in one way or another Obviously you are interacting with data science products every time you search for information on the web by using search engines such as Google or asking for directions with your mobile phone Data science is the science and technology focused on collecting raw data and processing it in an effective manner It is the combination of concepts and methods that make it possible to give meaning and understandability to huge volumes of data Data science has been the force behind resolving some of our most common daily tasks for several years In nearly all of our daily work we directly or indirectly work on storing and exchanging data With the rapid development of technology the need to store data effectively is also increasing That s why it needs to be handled properly Basically data science unearths the hidden insights of raw data and uses them for productive output Python is often used in data science today because it is a mature programming language that has excellent properties for newbie programmers Some of the most remarkable of these properties are its easy to read code suppression of non mandatory delimiters dynamic typing and dynamic memory usage Python is an interpreted language and it can be executed in the Python console without any need to compile to machine language Python Data Science teaches a complete course of data science including key topics like data integration data mining python etc We will explore NumPy for numerical data Pandas for data analysis IPython Scikit learn and Tensorflow for machine learning and business Each of the chapters in this book is devoted to one of the most interesting aspects of data analysis and processing The following are some of the major topics covered in Python Data Science Understanding Data Science Getting Started with Python for Data Scientists Descriptive statistics Data Analysis and Libraries NumPy Arrays and Vectorized Computation Data Analysis with Pandas Data Visualization Data Mining Classifying with Scikit learn Estimators Giving Computers the Ability to Learn from Data Training

Machine Learning Algorithms The Python ecosystem for data science discussed within Python Data Science includes SciPy NumPy Matplotlib Pandas and Scikit learn which provides all of the data science algorithms Data processing and analysis is one of the hottest areas of IT where developers who can handle projects of any level from social networks to trained systems are constantly required We hope this book will be the starting point for your journey into the fascinating world of Data Science To get started on your Python adventure just scroll back up and click the Buy button

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