



Quick answers to common problems

NumPy Cookbook

Over 70 interesting recipes for learning the Python open source mathematical library, NumPy

Ivan Idris

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Ivan Idris



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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

Numpy Cookbook - Second Edition Ivan Idris,2015-04-30 **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 (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 **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 Cookbook* Ivan Idris,2016-07-22 Over 140 practical recipes to help you make sense of your data with ease and build production ready data apps About This Book Analyze Big Data sets create attractive visualizations and manipulate and process various data types Packed with rich recipes to help you learn and explore amazing algorithms for statistics and machine learning Authored by Ivan Idris expert in python programming and proud author of eight highly reviewed books Who This Book Is For This book teaches Python data analysis at an intermediate level with the goal of transforming you from journeyman to master Basic Python and data analysis skills and affinity are assumed What You Will Learn Set up reproducible data analysis Clean and transform data Apply advanced statistical analysis Create attractive data visualizations Web scrape and work with databases Hadoop and Spark Analyze images and time series data Mine text and analyze social networks Use machine learning and evaluate the results Take advantage of parallelism and concurrency In Detail Data analysis is a rapidly evolving field and Python is a multi paradigm programming language suitable for object oriented application development and functional design patterns As Python offers a range of tools and libraries for all purposes it has slowly evolved as the primary language for data science including topics on data analysis visualization and machine learning *Python Data Analysis Cookbook* focuses on reproducibility and creating production ready systems You will

start with recipes that set the foundation for data analysis with libraries such as matplotlib NumPy and pandas You will learn to create visualizations by choosing color maps and palettes then dive into statistical data analysis using distribution algorithms and correlations You ll then help you find your way around different data and numerical problems get to grips with Spark and HDFS and then set up migration scripts for web mining In this book you will dive deeper into recipes on spectral analysis smoothing and bootstrapping methods Moving on you will learn to rank stocks and check market efficiency then work with metrics and clusters You will achieve parallelism to improve system performance by using multiple threads and speeding up your code By the end of the book you will be capable of handling various data analysis techniques in Python and devising solutions for problem scenarios

Style and Approach The book is written in cookbook style striving for high realism in data analysis Through the recipe based format you can read each recipe separately as required and immediately apply the knowledge gained

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

Mastering SciPy Francisco J. Blanco-Silva,2015-11-10 Implement state of the art techniques to visualize solutions to challenging problems in scientific computing with the use of the SciPy stack

About This Book Master the theory and algorithms behind numerical recipes and how they can be applied to real world problems Learn to combine the most appropriate built in functions from the SciPy stack by understanding the connection between the sources of your problem volume of data or computer architecture A comprehensive coverage of all the mathematical techniques needed to solve the presented topics with a discussion of the relevant algorithms built in the SciPy stack

Who This Book Is For If you are a mathematician engineer or computer scientist with a proficiency in Python and

familiarity with IPython this is the book for you Some basic knowledge of numerical methods in scientific computing would be helpful What You Will Learn Master relevant algorithms used in symbolic or numerical mathematics to address approximation interpolation differentiation integration root finding and optimization of scalar or multi variate functions Develop different algorithms and strategies to efficiently store and manipulate large matrices of data in particular to solve systems of linear equations or compute their eigenvalues eigenvectors Understand how to model physical problems with systems of differential equations and distinguish the factors that dictate the strategies to solve them Perform statistical analysis hypothesis test design and resolution or data mining at a higher level and apply them to real life problems in the field of data analysis Gain insights on the power of distances Delaunay triangulations and Voronoi diagrams for Computational Geometry and apply them to various engineering problems Familiarize yourself with different techniques in signal image processing including filtering audio images or video to extract information features or remove components In Detail The SciPy stack is a collection of open source libraries of the powerful scripting language Python together with its interactive shells This environment offers a cutting edge platform for numerical computation programming visualization and publishing and is used by some of the world s leading mathematicians scientists and engineers It works on any operating system that supports Python and is very easy to install and completely free of charge It can effectively transform into a data processing and system prototyping environment directly rivalling MATLAB and Octave This book goes beyond a mere description of the different built in functions coded in the libraries from the SciPy stack It presents you with a solid mathematical and computational background to help you identify the right tools for each problem in scientific computing and visualization You will gain an insight into the best practices with numerical methods depending on the amount or type of data properties of the mathematical tools employed or computer architecture among other factors The book kicks off with a concise exploration of the basics of numerical linear algebra and graph theory for the treatment of problems that handle large data sets or matrices In the subsequent chapters you will delve into the depths of algorithms in symbolic algebra and numerical analysis to address modeling simulation of various real world problems with functions through interpolation approximation or creation of systems of differential equations and extract their representing features zeros extrema integration or differentiation Lastly you will move on to advanced concepts of data analysis image signal processing and computational geometry Style and approach Packed with real world examples this book explores the mathematical techniques needed to solve the presented topics and focuses on the algorithms built in the SciPy stack

Python Posts & Telecom Press,Ivan Idris,2024-05-17 Python Key Features Python Book Description Python Python Python 12 Python NumPy matplotlib pandas 3 Python Python What you will learn Python NumPy matplotlib pandas Who this book is for Python

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

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

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Python Data Analysis Cookbook Ivan Idris,2016-07-22 **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 modelsPerform data manipulation using NumPy and pandas for aggregating cleaning and handling missing valuesCreate interactive visualizations using Matplotlib Seaborn and BokehRetrieve process and store data in a wide range of formatsUnderstand data preprocessing and feature engineering using pandas and scikit learnPerform time series analysis and signal processing using sunspot cycle dataAnalyze textual data and image data to perform advanced analysisGet up to speed with parallel computing using DaskWho 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

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

Software Engineering and Management: Theory and Applications Roger Lee,2025-04-26 This book reports state of the art results in Software Engineering Research Management Applications in both printed and electronic form Studies in Computation Intelligence SCI has grown into the most comprehensive computational intelligence research forum available in the world This book published original papers on both theory and practice that address foundations state of the art problems and solutions and crucial challenges

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Learning SciPy for Numerical and Scientific Computing - Second Edition Sergio J. Rojas G.,Erik A Christensen,Francisco J. Blanco-Silva,2015-02-26 This book targets programmers and scientists who have basic Python knowledge and who are keen to perform scientific and numerical computations with SciPy

OpenCV: Computer Vision Projects with Python Joseph Howse,Prateek Joshi,Michael Beyeler,2016-10-24 Get savvy with OpenCV and actualize cool computer vision applications About This Book Use OpenCV s Python bindings to capture video manipulate images and track objects Learn about the different functions of OpenCV and their actual implementations Develop a series of intermediate to advanced projects using OpenCV and Python Who This Book Is For This learning path is for someone who has a working knowledge of Python and wants to try out OpenCV This Learning Path will take you from a beginner to an expert in computer vision applications using OpenCV OpenCV s application are humongous and this Learning Path is the best resource to get yourself acquainted thoroughly with OpenCV What You Will Learn Install OpenCV and related software such as Python NumPy SciPy OpenNI and SensorKinect all on Windows Mac or Ubuntu Apply curves and other color transformations to simulate the look of old photos movies or video games Apply geometric transformations to images perform image filtering and convert an image into a cartoon like image Recognize hand gestures in real time and perform hand shape analysis based on the output of a Microsoft Kinect sensor Reconstruct a 3D real world scene from 2D camera motion and common camera reprojection techniques Detect and recognize street signs using a cascade classifier and support vector machines SVMs Identify emotional expressions in human faces using convolutional neural networks CNNs and SVMs Strengthen your OpenCV2 skills and learn how to use new OpenCV3 features In Detail OpenCV is a state of art computer vision library that allows a great variety of image and video processing operations OpenCV for Python enables us to run computer vision algorithms in real time This learning path proposes to teach the following topics First we will learn how to get started with

OpenCV and OpenCV3's Python API and develop a computer vision application that tracks body parts. Then we will build amazing intermediate level computer vision applications such as making an object disappear from an image, identifying different shapes, reconstructing a 3D map from images and building an augmented reality application. Finally we'll move to more advanced projects such as hand gesture recognition, tracking visually salient objects as well as recognizing traffic signs and emotions on faces using support vector machines and multi layer perceptrons respectively. This Learning Path combines some of the best that Packt has to offer in one complete curated package. It includes content from the following Packt products: OpenCV Computer Vision with Python by Joseph Howse, OpenCV with Python By Example by Prateek Joshi, OpenCV with Python Blueprints by Michael Beyeler. Style and approach: This course aims to create a smooth learning path that will teach you how to get started with will learn how to get started with OpenCV and OpenCV 3's Python API and develop superb computer vision applications. Through this comprehensive course you'll learn to create computer vision applications from scratch to finish and more.

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