Quick answers to common problems

NumPy Cookbook
Second Edition

Over 90 fascinating recipes to learn and perform mathematical, scientific, and engineering Python computations with NumPy

Ivan Idris

Numpy Cookbook Second Edition

Giuseppe Ciaburro,Prateek Joshi

Numpy Cookbook Second Edition:

Numpy Cookbook - Second Edition Ivan Idris,2015-04-30   The Official Raspberry Pi Projects Book Volume 2 The Makers of The MagPi magazine,2016-11-01 The Official Raspberry Pi projects book returns with inspirational projects detailed step by step guides and product reviews based around the phenomenon that is the Raspberry Pi See why educators and makers adore the credit card sized computer that can be used to make robots retro games consoles and even art In this volume of The Official Raspberry Pi Projects Book you ll Get involved with the amazing and very active Raspberry Pi community Be inspired by incredible projects made by other people Learn how to make with your Raspberry Pi with our tutorials Find out about the top kits and accessories for your Pi projects And much much more If this is your first time using a Raspberry Pi you ll also find some very helpful guides to get you started with your Raspberry Pi journey With millions of Raspberry Pi boards out in the wild that s millions more people getting into digital making and turning their dreams into a Pi powered reality Being so spoilt for choice though means that we ve managed to compile an incredible list of projects guides and reviews for you This book was written using an earlier version of Raspberry Pi OS Please use Raspberry Pi OS Legacy for full compatibility See magpi cc legacy for more information   *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

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Python Machine Learning Cookbook will enable you to adopt a fresh approach to dealing with real world machine learning and deep learning tasks With the help of over 100 recipes you will learn to build powerful machine learning applications using modern libraries from the Python ecosystem The book will also guide you on how to implement various machine learning algorithms for classification clustering and recommendation engines using a recipe based approach With emphasis on practical solutions dedicated sections in the book will help you to apply supervised and unsupervised learning techniques to real world problems Toward the concluding chapters you will get to grips with recipes that teach you advanced techniques including reinforcement learning deep neural networks and automated machine learning By the end of this book you will be equipped with the skills you need to apply machine learning techniques and leverage the full capabilities of the Python ecosystem through real world examples What you will learnUse predictive modeling and apply it to real world problemsExplore data visualization techniques to interact with your dataLearn how to build a recommendation engineUnderstand how to interact with text data and build models to analyze itWork with speech data and recognize spoken words using Hidden Markov ModelsGet well versed with reinforcement learning automated ML and transfer learningWork with image data and build systems for image recognition and biometric face recognitionUse deep neural networks to build an optical character recognition systemWho this book is for This book is for data scientists machine learning developers deep learning enthusiasts and Python programmers who want to solve real world challenges using machine learning techniques and algorithms If you are facing challenges at work and want ready to use code solutions to cover key tasks in machine learning and the deep learning domain then this book is what you need Familiarity with Python programming and machine learning concepts will be useful   **NUMPY BEGINNER'S GUIDE.** IVAN. IDRIS,2018   **Python Data Cleaning Cookbook** Michael Walker,2024-05-31 Learn the intricacies of data description issue identification and practical problem solving armed with essential techniques and expert tips Key Features Get to grips with new techniques for data preprocessing and cleaning for machine learning and NLP models Use new and updated AI tools and techniques for data cleaning tasks Clean monitor and validate large data volumes to diagnose problems using cutting edge methodologies including Machine learning and AI Book DescriptionJumping into data analysis without proper data cleaning will certainly lead to incorrect results The Python Data Cleaning Cookbook Second Edition will show you tools and techniques for cleaning and handling data with Python for better outcomes Fully updated to the latest version of Python and all relevant tools this book will teach you how to manipulate and clean data to get it into a useful form he current edition focuses on advanced techniques like machine learning and AI specific approaches and tools for data cleaning along with the conventional ones The book also delves into tips and techniques to process and clean data for ML AI and NLP models You will learn how to filter and summarize data to gain insights and better understand what makes sense and what does not along with discovering how to operate on data to address the issues you ve identified Next you ll cover recipes for using supervised learning and Naive

Bayes analysis to identify unexpected values and classification errors and generate visualizations for exploratory data analysis EDA to identify unexpected values Finally you ll build functions and classes that you can reuse without modification when you have new data By the end of this Data Cleaning book you ll know how to clean data and diagnose problems within it What you will learn Using OpenAI tools for various data cleaning tasks Producing summaries of the attributes of datasets columns and rows Anticipating data cleaning issues when importing tabular data into pandas Applying validation techniques for imported tabular data Improving your productivity in pandas by using method chaining Recognizing and resolving common issues like dates and IDs Setting up indexes to streamline data issue identification Using data cleaning to prepare your data for ML and AI models Who this book is for This book is for anyone looking for ways to handle messy duplicate and poor data using different Python tools and techniques The book takes a recipe based approach to help you to learn how to clean and manage data with practical examples Working knowledge of Python programming is all you need to get the most out of the book   **Guide to NumPy** Travis Oliphant,2015-09-15 This is the second edition of Travis Oliphant s A Guide to NumPy originally published electronically in 2006 It is designed to be a reference that can be used by practitioners who are familiar with Python but want to learn more about NumPy and related tools In this updated edition new perspectives are shared as well as descriptions of new distributed processing tools in the ecosystem and how Numba can be used to compile code using NumPy arrays Travis Oliphant is the co founder and CEO of Continuum Analytics Continuum Analytics develops Anaconda the leading modern open source analytics platform powered by Python Travis who is a passionate advocate of open source technology has a Ph D from Mayo Clinic and B S and M S degrees in Mathematics and Electrical Engineering from Brigham Young University Since 1997 he has worked extensively with Python for computational and data science He was the primary creator of the NumPy package and founding contributor to the SciPy package He was also a co founder and past board member of NumFOCUS a non profit for reproducible and accessible science that supports the PyData stack He also served on the board of the Python Software Foundation   *Agriculture and Natural Resources* ,2018   *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 **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

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