



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

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Numpy Cookbook Second Edition

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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 [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 NumPy SciPy Pandas stasmodels 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 fies 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 [**Time Series Analysis with Python Cookbook**](#) Tarek A. Atwan,2026-01-16 Perform time series analysis and forecasting confidently with this Python code bank and reference manual Access exclusive GitHub bonus chapters and hands

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Fluent Python Luciano Ramalho, 2015 Explains how to write idiomatic, effective Python code by leveraging its best features Python's simplicity quickly lets you become productive with it but this often means you aren't using everything the language has to offer By taking you through Python's key language features and libraries this practical book shows you how to make your code shorter, faster and more readable all at the same time From publisher description **Python Data Cleaning Cookbook - Second Edition** Michael Walker, 2024-05-31 The book shows you how to clean, wrangle and view data

from multiple perspectives including dataset and column attributes

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[Machine Learning with TensorFlow, Second Edition](#) Chris Mattmann,2020-12-23 Updated with new code new projects and new chapters Machine Learning with TensorFlow Second Edition gives readers a solid foundation in machine learning concepts and the TensorFlow library

Summary Updated with new code new projects and new chapters Machine Learning with TensorFlow Second Edition gives

readers a solid foundation in machine learning concepts and the TensorFlow library Written by NASA JPL Deputy CTO and Principal Data Scientist Chris Mattmann all examples are accompanied by downloadable Jupyter Notebooks for a hands on experience coding TensorFlow with Python New and revised content expands coverage of core machine learning algorithms and advancements in neural networks such as VGG Face facial identification classifiers and deep speech classifiers Purchase of the print book includes a free eBook in PDF Kindle and ePUB formats from Manning Publications About the technology Supercharge your data analysis with machine learning ML algorithms automatically improve as they process data so results get better over time You don t have to be a mathematician to use ML Tools like Google s TensorFlow library help with complex calculations so you can focus on getting the answers you need About the book Machine Learning with TensorFlow Second Edition is a fully revised guide to building machine learning models using Python and TensorFlow You ll apply core ML concepts to real world challenges such as sentiment analysis text classification and image recognition Hands on examples illustrate neural network techniques for deep speech processing facial identification and auto encoding with CIFAR 10 What s inside Machine Learning with TensorFlow Choosing the best ML approaches Visualizing algorithms with TensorBoard Sharing results with collaborators Running models in Docker About the reader Requires intermediate Python skills and knowledge of general algebraic concepts like vectors and matrices Examples use the super stable 1 15 x branch of TensorFlow and TensorFlow 2 x About the author Chris Mattmann is the Division Manager of the Artificial Intelligence Analytics and Innovation Organization at NASA Jet Propulsion Lab The first edition of this book was written by Nishant Shukla with Kenneth Fricklas Table of Contents PART 1 YOUR MACHINE LEARNING RIG 1 A machine learning odyssey 2 TensorFlow essentials PART 2 CORE LEARNING ALGORITHMS 3 Linear regression and beyond 4 Using regression for call center volume prediction 5 A gentle introduction to classification 6 Sentiment classification Large movie review dataset 7 Automatically clustering data 8 Inferring user activity from Android accelerometer data 9 Hidden Markov models 10 Part of speech tagging and word sense disambiguation PART 3 THE NEURAL NETWORK PARADIGM 11 A peek into autoencoders 12 Applying autoencoders The CIFAR 10 image dataset 13 Reinforcement learning 14 Convolutional neural networks 15 Building a real world CNN VGG Face ad VGG Face Lite 16 Recurrent neural networks 17 LSTMs and automatic speech recognition 18 Sequence to sequence models for chatbots 19 Utility landscape *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 Machine Learning Cookbook** Giuseppe Ciaburro, Prateek Joshi, 2019-03-30 Discover powerful ways to effectively solve real world machine learning problems using key libraries including scikit learn TensorFlow and PyTorch Key Features Learn and implement machine learning algorithms in a variety of real life scenarios Cover a range of tasks catering to supervised unsupervised and reinforcement learning techniques Find easy to follow code solutions for tackling common and not so common challenges Book

Description This eagerly anticipated second edition of the popular 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 learn: Use predictive modeling and apply it to real world problems. Explore data visualization techniques to interact with your data. Learn how to build a recommendation engine. Understand how to interact with text data and build models to analyze it. Work with speech data and recognize spoken words using Hidden Markov Models. Get well versed with reinforcement learning, automated ML and transfer learning. Work with image data and build systems for image recognition and biometric face recognition. Use deep neural networks to build an optical character recognition system.

Who 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 Description

Jumping 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. The 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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