Numerical Python

Scientific Computing and Data Science
Applications with Numpy,
SciPy and Matplotlib

Second Edition

Robert Johansson

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Numpy Numerical Python:

    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   **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   *Python Scripting for Computational Science* Hans Petter Langtangen,2009-01-09 With a primary focus on examples and applications of relevance to computational scientists this brilliantly useful book shows computational scientists how to develop tailored flexible and human efficient working environments built from small scripts written in the easy to learn high level Python language All the tools and examples in this book are open source codes This third edition features lots of new material It is also released after a comprehensive reorganization of the text The author has inserted improved examples and tools and updated information as well as correcting any errors that crept in to the first imprint

    Comp-Informatic Practices-TB-12-R Reeta Sahoo, Gagan Sahoo, Comp Informatic Practices TB 12 R   **DATA SCIENCE FUNDAMENTALS: BRIDGING STATISTICS, COMPUTING, AND INTELLIGENCE** Dr. Swati Pandey,Prof. Shalini Vashishtha,Prof. Santosh Kumar,2025-11-24 The big data era started and as its storage needs increased businesses now have to deal with petabytes and exabytes of data Data storage was a major challenge and cause of concern for many firms until 2010 After frameworks like Hadoop and others made storage obsolete focus shifted to data processing Data science is essential in this situation Data science has the potential to make all of the glitzy science fiction films you love to

watch a reality Many factors have accelerated today s progress so in order to be ready for what lies ahead it s critical to comprehend what it is and how we may contribute to it Without any assumptions let s dive into the subject of data science

Kickstart Unsupervised Machine Learning: Master Unsupervised Machine Learning Through Pattern Discovery, Clustering, and Dimensionality Reduction to Build Intelligent, Real-World Applications Dr. Nimrita,2025-12-27 Unlock the power of unsupervised learning to uncover hidden insights and transform raw data into actionable knowledge Key Features Master unsupervised learning techniques for Machine Learning with real world applications Learn clustering dimensionality reduction and anomaly detection with real world applications Build practical expertise through step by step coding and practical examples as well as datasets Book DescriptionUnsupervised machine learning is revolutionizing how organizations extract value from raw data revealing patterns and structures without predefined labels From customer segmentation and fraud detection to generative modeling its versatility drives innovation across industries Kickstart Unsupervised Machine Learning is your comprehensive companion to mastering this transformative field Starting with the core principles the book introduces essential clustering algorithms including K Means DBSCAN and hierarchical approaches before advancing to dimensionality reduction techniques such as PCA t SNE and UMAP for simplifying complex data It then explores sophisticated models like Gaussian Mixture Models and Generative Adversarial Networks GANs combining theory with practical coding exercises and hands on projects using real world datasets to solidify your understanding Thus by the end of this book you will confidently evaluate deploy and optimize unsupervised models to derive meaningful insights from unstructured data What you will learn Understand the principles and algorithms of unsupervised learning from ground up Apply clustering and dimensionality reduction techniques on complex datasets Evaluate and visualize models using key performance metrics such as validation and interpretability Implement unsupervised workflows using Python and open datasets Solve real world challenges in NLP image and anomaly detection Extend learning methods to research and production level projects *Kickstart Unsupervised Machine Learning* Dr. Nimrita Koul,2025-12-27 TAGLINE Unlock the power of unsupervised learning to uncover hidden insights and transform raw data into actionable knowledge KEY FEATURES Master unsupervised learning techniques for Machine Learning with real world applications Learn clustering dimensionality reduction and anomaly detection with real world applications Build practical expertise through step by step coding and practical examples as well as datasets DESCRIPTION Unsupervised machine learning is revolutionizing how organizations extract value from raw data revealing patterns and structures without predefined labels From customer segmentation and fraud detection to generative modeling its versatility drives innovation across industries Kickstart Unsupervised Machine Learning is your comprehensive companion to mastering this transformative field Starting with the core principles the book introduces essential clustering algorithms including K Means DBSCAN and hierarchical approaches before advancing to dimensionality reduction techniques such as PCA t SNE and UMAP for simplifying complex data It then

explores sophisticated models like Gaussian Mixture Models and Generative Adversarial Networks GANs combining theory with practical coding exercises and hands on projects using real world datasets to solidify your understanding Thus by the end of this book you will confidently evaluate deploy and optimize unsupervised models to derive meaningful insights from unstructured data WHAT WILL YOU LEARN Understand the principles and algorithms of unsupervised learning from ground up Apply clustering and dimensionality reduction techniques on complex datasets Evaluate and visualize models using key performance metrics such as validation and interpretability Implement unsupervised workflows using Python and open datasets Solve real world challenges in NLP image and anomaly detection Extend learning methods to research and production level projects WHO IS THIS BOOK FOR This book is tailored for data scientists machine learning engineers AI researchers business analysts software developers and quantitative modelers who want to gain hands on mastery in unsupervised techniques It is equally valuable for undergraduate and postgraduate students educators and research scholars exploring clustering dimensionality reduction and anomaly detection Professionals such as data engineers research associates statisticians and AI consultants will also benefit from the applied coding examples and deployment strategies TABLE OF CONTENTS 1 Understanding Unsupervised Learning 2 Python Basics for Machine Learning 3 Clustering Techniques 4 Dimensionality Reduction 5 Anomaly and Outlier Detection 6 Deep Unsupervised Learning 7 Applications of Unsupervised Learning 8 Unsupervised Learning for Natural Language Processing 9 Evaluating Unsupervised Learning Models 10 Deploying Unsupervised Learning Models into Production 11 Case Studies and Best Practices in Unsupervised Learning Index **Numerical Python** Robert Johansson,2024-09-24 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

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India @ 2025 volume - II Mr. Sudipta Banerjee ,Mrs. Anamika Sahani,Dr. Ganesh Tarachand Khaire ,2025-04-30   **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   NumPy Simply In Depth Ajit Singh,Ravi Kumar Singh, This book covers Python mathematical library NumPy in detail NumPy short for Numerical Python provides an efficient interface to store and operate on dense data buffers In some ways NumPy arrays are like Python s built in list type but NumPy arrays provide much more efficient storage and data operations as the arrays grow larger in size NumPy arrays form the core of nearly the entire ecosystem of data science tools in Python so time spent learning to use NumPy effectively will be valuable no matter what aspect of data science interests you You will learn all the essential things needed to become a confident NumPy user NumPy started originally as part of SciPy and then was singled out as a fundamental library which other open source Python APIs build on As such it is a crucial part of the common Python stack used for numerical and data analysis Anyone with basic and upward knowledge of Python is the targeted audience for this book Although the tools in NumPy are relatively advanced using them is simple and should keep even a novice Python programmer happy Features 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 After reading this book you 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   NUMPY FOR DATA ANALYSIS JYOTHI, MADALA HIMA,SURESH, SUNDARADASU,2021-12-01 NumPy for Data Analysis is a practical and beginner friendly introduction to data analysis which covers the basics of NumPy Numerical Python a data science tool in Python This classic book covers the basic to advanced topics of NumPy which is the backbone of various Python libraries It helps students to acquire programming skills in the Python package NumPy and perform mathematical and statistical operations KEY FEATURES This textbook prepares students to Learn basic and advanced features in NumPy Solve real world data analysis problems through detailed examples Use NumPy to write code in more concise and clear manner Write programs related to 4 D arrays This book is primarily meant for a programming language course taught to undergraduate students of Computer Science and Engineering Information Technology and Electronics and Communication Engineering Software Engineers can also use the book as a reference for better understanding how their programs interact with the system within less time compared to all other programming languages TARGET AUDIENCE B Tech computer science and engineering information technology and electronics and communication engineering UG and PG Students of Data

Science   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 NumPyAbout 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 functionsWho This Book Is ForIf 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 ScikitsIn DetailIn 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 approachThis quick guide will help you get to grips with the nitty gritties 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   **Numerical Python** Robert Johansson,2015-10-07 Numerical Python by Robert Johansson shows you how to leverage the numerical and mathematical modules in Python and its Standard Library as well as popular open source numerical Python packages like NumPy FiPy matplotlib and more to numerically compute solutions and mathematically model applications in a number of areas like big data cloud computing financial engineering business management and more After reading and using this book you ll get some takeaway case study examples of applications that can be found in areas like business management big data cloud computing financial engineering i e options trading investment alternatives and even games Up until very recently Python was mostly regarded as just a web scripting language Well computational scientists and engineers have recently discovered the flexibility and power of Python to do more Big data analytics and cloud computing programmers are seeing

Python s immense use Financial engineers are also now employing Python in their work Python seems to be evolving as a language that can even rival C Fortran and Pascal Delphi for numerical and mathematical computations   *Python for Programmers* Paul Deitel,Harvey Deitel,2019-03-15 The professional programmer s Deitel guide to Python with introductory artificial intelligence case studies Written for programmers with a background in another high level language Python for Programmers uses hands on instruction to teach today s most compelling leading edge computing technologies and programming in Python one of the world s most popular and fastest growing languages Please read the Table of Contents diagram inside the front cover and the Preface for more details In the context of 500 real world examples ranging from individual snippets to 40 large scripts and full implementation case studies you ll use the interactive IPython interpreter with code in Jupyter Notebooks to quickly master the latest Python coding idioms After covering Python Chapters 1 5 and a few key parts of Chapters 6 7 you ll be able to handle significant portions of the hands on introductory AI case studies in Chapters 11 16 which are loaded with cool powerful contemporary examples These include natural language processing data mining Twitter for sentiment analysis cognitive computing with IBM WatsonTM supervised machine learning with classification and regression unsupervised machine learning with clustering computer vision through deep learning and convolutional neural networks deep learning with recurrent neural networks big data with Hadoop SparkTM and NoSQL databases the Internet of Things and more You ll also work directly or indirectly with cloud based services including Twitter Google TranslateTM IBM Watson Microsoft Azure OpenMapQuest PubNub and more Features 500 hands on real world live code examples from snippets to case studies IPython code in Jupyter Notebooks Library focused Uses Python Standard Library and data science libraries to accomplish significant tasks with minimal code Rich Python coverage Control statements functions strings files JSON serialization CSV exceptions Procedural functional style and object oriented programming Collections Lists tuples dictionaries sets NumPy arrays pandas Series DataFrames Static dynamic and interactive visualizations Data experiences with real world datasets and data sources Intro to Data Science sections AI basic stats simulation animation random variables data wrangling regression AI big data and cloud data science case studies NLP data mining Twitter IBM WatsonTM machine learning deep learning computer vision Hadoop SparkTM NoSQL IoT Open source libraries NumPy pandas Matplotlib Seaborn Folium SciPy NLTK TextBlob spaCy Textatistic Tweepy scikit learn Keras and more Accompanying code examples are available here http ptgmedia pearsoncmg com imprint_downloads informit bookreg 9780135224335 9780135224335_examples zip Register your product for convenient access to downloads updates and or corrections as they become available See inside book for more information   **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   **Numerical Python in Astronomy and**

Astrophysics Wolfram Schmidt,Marcel Völschow,2021-07-14 This book provides a solid foundation in the Python programming language numerical methods and data analysis all embedded within the context of astronomy and astrophysics It not only enables students to learn programming with the aid of examples from these fields but also provides ample motivation for engagement in independent research The book opens by outlining the importance of computational methods and programming algorithms in contemporary astronomical and astrophysical research showing why programming in Python is a good choice for beginners The performance of basic calculations with Python is then explained with reference to for example Kepler s laws of planetary motion and gravitational and tidal forces Here essential background knowledge is provided as necessary Subsequent chapters are designed to teach the reader to define and use important functions in Python and to utilize numerical methods to solve differential equations and landmark dynamical problems in astrophysics Finally the analysis of astronomical data is discussed with various hands on examples as well as guidance on astronomical image analysis and applications of artificial neural networks **Stock Market Prediction and Efficiency Analysis using Recurrent Neural Network** Joish Bosco,Fateh Khan,2018-09-18 Project Report from the year 2018 in the subject Computer Science Technical Computer Science course Computer Science language English abstract Modeling and Forecasting of the financial market have been an attractive topic to scholars and researchers from various academic fields The financial market is an abstract concept where financial commodities such as stocks bonds and precious metals transactions happen between buyers and sellers In the present scenario of the financial market world especially in the stock market forecasting the trend or the price of stocks using machine learning techniques and artificial neural networks are the most attractive issue to be investigated As Giles explained financial forecasting is an instance of signal processing problem which is difficult because of high noise small sample size non stationary and non linearity The noisy characteristics mean the incomplete information gap between past stock trading price and volume with a future price The stock market is sensitive with the political and macroeconomic environment However these two kinds of information are too complex and unstable to gather The above information that cannot be included in features are considered as noise The sample size of financial data is determined by real world transaction records On one hand a larger sample size refers a longer period of transaction records on the other hand large sample size increases the uncertainty of financial environment during the 2 sample period In this project we use stock data instead of daily data in order to reduce the probability of uncertain noise and relatively increase the sample size within a certain period of time By non stationarity one means that the distribution of stock data is various during time changing Non linearity implies that feature correlation of different individual stocks is various Efficient Market Hypothesis was developed by Burton G Malkiel in 1991

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