Learning SciPy for Numerical and Scientific Computing

Second Edition

Quick solutions to complex numerical problems in physics, applied mathematics, and science with SciPy

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Learning Scipy For Numerical And Scientific Computing Second Edition

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Learning Scipy For Numerical And Scientific Computing Second Edition:

Learning Scipy for Numerical and Scientific Computing Second Edition Sergio Rojas,2015-02-26 **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 **Learning SciPy for Numerical and Scientific Computing - Second Edition** Sergio G.,Erik Christensen,Francisco Blanco-Silva,2015 Quick solutions to complex numerical problems in physics applied mathematics and science with SciPy In Detail SciPy is an open source Python library used to perform scientific computing The SciPy Scientific Python package extends the functionality of NumPy with a substantial collection of useful algorithms The book starts with a brief description of the SciPy libraries followed by a chapter that is a fun and fast paced primer on array creation manipulation and problem solving You will also learn how to use SciPy in linear algebra which includes topics such as computation of eigenvalues and eigenvectors Furthermore the book is based on interesting subjects such as definition and manipulation of functions computation of derivatives integration interpolation and regression You will also learn how to use SciPy in signal processing and how applications of SciPy can be used to collect organize analyze and interpret data By the end of the book you will have fast accurate and easy to code solutions for numerical and scientific computing applications What You Will Learn Get to know the benefits of using the combination of Python NumPy SciPy and matplotlib as a programming environment for scientific purposes Create and manipulate an object array used by SciPy Use SciPy with large matrices to compute eigenvalues and eigenvectors Focus on construction acquisition quality improvement compression and feature extraction of signals Make use of SciPy to collect organize analyze and interpret data with examples taken from statistics and clustering Acquire the skill of constructing a triangulation of points convex hulls Voronoi diagrams and many similar applications Find out ways that SciPy can be used with other languages such as C C Fortran and MATLAB Octave Downloading the example code for this book You can download the example code files for all Packt books you have purchased from your account at http www PacktPub com If you purchased this book elsewhere you can visit http www PacktPub com support and register to have the files e mailed directly to you **Learning SciPy for Numerical and Scientific Computing** Francisco J. Blanco-Silva,F. Silva,2013 A step by step practical tutorial with plenty of examples on research based problems from various areas of science that prove how simple yet effective it is to provide solutions based on SciPy This book is targeted at anyone with basic knowledge of Python a somewhat advanced command of mathematics physics and an interest in engineering or scientific applications this is broadly what we refer to as scientific computing This book will be of critical importance to programmers and scientists who have basic Python knowledge and would like to be able to do scientific and numerical computations with SciPy **Mastering Python Scientific Computing** Hemant Kumar Mehta,2015-09-23 A complete guide for Python programmers to master

scientific computing using Python APIs and tools About This Book The basics of scientific computing to advanced concepts involving parallel and large scale computation are all covered Most of the Python APIs and tools used in scientific computing are discussed in detail The concepts are discussed with suitable example programs Who This Book Is For If you are a Python programmer and want to get your hands on scientific computing this book is for you The book expects you to have had exposure to various concepts of Python programming What You Will Learn Fundamentals and components of scientific computing Scientific computing data management Performing numerical computing using NumPy and SciPy Concepts and programming for symbolic computing using SymPy Using the plotting library matplotlib for data visualization Data analysis and visualization using Pandas matplotlib and IPython Performing parallel and high performance computing Real life case studies and best practices of scientific computing In Detail In today s world along with theoretical and experimental work scientific computing has become an important part of scientific disciplines Numerical calculations simulations and computer modeling in this day and age form the vast majority of both experimental and theoretical papers In the scientific method replication and reproducibility are two important contributing factors A complete and concrete scientific result should be reproducible and replicable Python is suitable for scientific computing A large community of users plenty of help and documentation a large collection of scientific libraries and environments great performance and good support makes Python a great choice for scientific computing At present Python is among the top choices for developing scientific workflow and the book targets existing Python developers to master this domain using Python The main things to learn in the book are the concept of scientific workflow managing scientific workflow data and performing computation on this data using Python The book discusses NumPy SciPy SymPy matplotlib Pandas and IPython with several example programs Style and approach This book follows a hands on approach to explain the complex concepts related to scientific computing It details various APIs using appropriate examples **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 Machine Learning Algorithms Giuseppe Bonaccorso,2018-08-30 An easy to follow step by step guide for getting to grips with the real world application of machine learning algorithms Key Features Explore statistics and complex mathematics for data intensive applications Discover new developments in EM algorithm PCA and bayesian regression Study patterns and make predictions across various datasets

Book Description Machine learning has gained tremendous popularity for its powerful and fast predictions with large datasets However the true forces behind its powerful output are the complex algorithms involving substantial statistical analysis that churn large datasets and generate substantial insight This second edition of Machine Learning Algorithms walks you through prominent development outcomes that have taken place relating to machine learning algorithms which constitute major contributions to the machine learning process and help you to strengthen and master statistical interpretation across the areas of supervised semi supervised and reinforcement learning Once the core concepts of an algorithm have been covered you ll explore real world examples based on the most diffused libraries such as scikit learn NLTK TensorFlow and Keras You will discover new topics such as principal component analysis PCA independent component analysis ICA Bayesian regression discriminant analysis advanced clustering and gaussian mixture By the end of this book you will have studied machine learning algorithms and be able to put them into production to make your machine learning applications more innovative What you will learn Study feature selection and the feature engineering process Assess performance and error trade offs for linear regression Build a data model and understand how it works by using different types of algorithm Learn to tune the parameters of Support Vector Machines SVM Explore the concept of natural language processing NLP and recommendation systems Create a machine learning architecture from scratch Who this book is for Machine Learning Algorithms is for you if you are a machine learning engineer data engineer or junior data scientist who wants to advance in the field of predictive analytics and machine learning Familiarity with R and Python will be an added advantage for getting the best from this book   **"Numerical Methods using Python (For scientists and Engineers)"** Pankaj Dumka,Rishika Dumka,Dhananjay R. Mishra,2022-11-21 The book is specifically intended for scientists engineers and engineering students who have taken a course on numeric methods and wish to comprehend and learn the subject through programming The book s chapters are written methodically step by step so that programming becomes simple More emphasis is placed on computationally modelling the methodologies and discussing the numerical method Python is chosen as the programming language because it is simple to comprehend and use compared to other programming languages The book allows readers to use and experiment with the approaches it describes With very few adjustments many of the programmes in the book can be utilised for applications in science and engineering   **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 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   *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 for Secret Agents** Steven F. Lott,2014-08-26 If you are a Python beginner who is looking to learn the language through interesting projects this book is for you A basic knowledge of programming and statistics is beneficial to get the most out of the book   **Numerical Python** Robert Johansson,2019-01-19 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   Scientific Computing with Python Claus Fuhrer,Jan Erik Solem,Olivier Verdier,2021-07-30 Leverage this example packed comprehensive guide for all your Python computational needs Key FeaturesLearn the first steps within Python to highly specialized conceptsExplore examples and code snippets taken from typical programming situations within scientific computing Delve into essential computer science concepts like iterating object oriented programming testing and MPI presented in strong connection to applications within scientific computing Book Description Python has tremendous potential within the scientific computing domain This updated edition of Scientific Computing with Python features new chapters on graphical user interfaces efficient data processing and parallel computing to help you perform mathematical and scientific computing efficiently using Python This book will help you to explore new Python syntax features and create different models using scientific computing principles The book presents Python alongside mathematical applications and demonstrates how to apply Python concepts in computing with the help of examples involving Python 3 8 You ll use pandas for basic data analysis to understand the modern needs of scientific computing and cover data module improvements and built in features You ll also explore numerical computation modules such as NumPy and SciPy which enable fast access to highly efficient numerical algorithms By learning to use the plotting module Matplotlib you will be able to represent your computational results in talks and publications A special chapter is devoted to SymPy a tool for bridging symbolic and numerical computations By the end of this Python book you ll have gained a solid understanding of task automation and how to implement and test mathematical algorithms within the realm of scientific computing What you will learnUnderstand the building blocks of computational mathematics linear algebra and related Python objectsUse Matplotlib to create high quality figures and graphics to draw and visualize resultsApply object oriented programming OOP to scientific computing in PythonDiscover how to use pandas to enter the world of data processingHandle exceptions for writing reliable and usable codeCover manual and automatic aspects of testing for scientific programmingGet to grips with parallel computing to increase computation speedWho this book is for This book is for students with a mathematical background university teachers designing modern courses in programming data scientists researchers developers and anyone who wants to perform scientific computation in Python   Functional Python Programming Steven F. Lott,2018-04-13 Create succinct and

expressive implementations with functional programming in Python Key Features Learn how to choose between imperative and functional approaches based on expressiveness clarity and performance Get familiar with complex concepts such as monads concurrency and immutability Apply functional Python to common Exploratory Data Analysis EDA programming problems Book Description If you re a Python developer who wants to discover how to take the power of functional programming FP and bring it into your own programs then this book is essential for you even if you know next to nothing about the paradigm Starting with a general overview of functional concepts you ll explore common functional features such as first class and higher order functions pure functions and more You ll see how these are accomplished in Python 3 6 to give you the core foundations you ll build upon After that you ll discover common functional optimizations for Python to help your apps reach even higher speeds You ll learn FP concepts such as lazy evaluation using Python s generator functions and expressions Moving forward you ll learn to design and implement decorators to create composite functions You ll also explore data preparation techniques and data exploration in depth and see how the Python standard library fits the functional programming model Finally to top off your journey into the world of functional Python you ll at look at the PyMonad project and some larger examples to put everything into perspective What you will learn Use Python s generator functions and generator expressions to work with collections in a non strict or lazy manner Utilize Python library modules including itertools functools multiprocessing and concurrent features to ensure efficient functional programs Use Python strings with object oriented suffix notation and prefix notation Avoid stateful classes with families of tuples Design and implement decorators to create composite functions Use functions such as max min map filter and sorted Write higher order functions Who this book is for This book is for Python developers who would like to perform Functional programming with Python Python Programming knowledge is assumed **Introduction to the Tools of Scientific Computing** Einar Smith,2022-10-27 The book provides an introduction to common programming tools and methods in numerical mathematics and scientific computing Unlike standard approaches it does not focus on any specific language but aims to explain the underlying ideas Typically new concepts are first introduced in the particularly user friendly Python language and then transferred and extended in various programming environments from C C Julia and MATLAB to Maple and Mathematica This includes various approaches to distributed computing By examining and comparing different languages the book is also helpful for mathematicians and practitioners in deciding which programming language to use for which purposes At a more advanced level special tools for the automated solution of partial differential equations using the finite element method are discussed On a more experimental level the basic methods of scientific machine learning in artificial neural networks are explained and illustrated **Image Processing and Acquisition using Python** Ravishankar Chityala,Sridevi Pudipeddi,2020-06-11 Image Processing and Acquisition using Python provides readers with a sound foundation in both image acquisition and image processing one of the first books to integrate these topics together By improving readers

knowledge of image acquisition techniques and corresponding image processing the book will help them perform experiments more effectively and cost efficiently as well as analyze and measure more accurately Long recognized as one of the easiest languages for non programmers to learn Python is used in a variety of practical examples A refresher for more experienced readers the first part of the book presents an introduction to Python Python modules reading and writing images using Python and an introduction to images The second part discusses the basics of image processing including pre post processing using filters segmentation morphological operations and measurements The second part describes image acquisition using various modalities such as x ray CT MRI light microscopy and electron microscopy These modalities encompass most of the common image acquisition methods currently used by researchers in academia and industry Features Covers both the physical methods of obtaining images and the analytical processing methods required to understand the science behind the images Contains many examples detailed derivations and working Python examples of the techniques Offers practical tips on image acquisition and processing Includes numerous exercises to test the reader s skills in Python programming and image processing with solutions to selected problems example programs and images available on the book s web page New to this edition Machine learning has become an indispensable part of image processing and computer vision so in this new edition two new chapters are included one on neural networks and the other on convolutional neural networks A new chapter on affine transform and many new algorithms Updated Python code aligned to the latest version of modules

Mastering Numerical Computing with NumPy Umit Mert Cakmak,Mert Cuhadaroglu,2018-06-28 Enhance the power of NumPy and start boosting your scientific computing capabilities Key Features Grasp all aspects of numerical computing and understand NumPy Explore examples to learn exploratory data analysis EDA regression and clustering Access NumPy libraries and use performance benchmarking to select the right tool Book Description NumPy is one of the most important scientific computing libraries available for Python Mastering Numerical Computing with NumPy teaches you how to achieve expert level competency to perform complex operations with in depth coverage of advanced concepts Beginning with NumPy s arrays and functions you will familiarize yourself with linear algebra concepts to perform vector and matrix math operations You will thoroughly understand and practice data processing exploratory data analysis EDA and predictive modeling You will then move on to working on practical examples which will teach you how to use NumPy statistics in order to explore US housing data and develop a predictive model using simple and multiple linear regression techniques Once you have got to grips with the basics you will explore unsupervised learning and clustering algorithms followed by understanding how to write better NumPy code while keeping advanced considerations in mind The book also demonstrates the use of different high performance numerical computing libraries and their relationship with NumPy You will study how to benchmark the performance of different configurations and choose the best for your system By the end of this book you will have become an expert in handling and performing complex data manipulations What you will learn Perform vector and matrix operations

using NumPy Perform exploratory data analysis EDA on US housing data Develop a predictive model using simple and multiple linear regression Understand unsupervised learning and clustering algorithms with practical use cases Write better NumPy code and implement the algorithms from scratch Perform benchmark tests to choose the best configuration for your system Who this book is for Mastering Numerical Computing with NumPy is for you if you are a Python programmer data analyst data engineer or a data science enthusiast who wants to master the intricacies of NumPy and build solutions for your numeric and scientific computational problems You are expected to have familiarity with mathematics to get the most out of this book **Proceedings of the 6th Sriwijaya University Learning and Education International Conference 2024 (SULE-IC 2024)** Meilinda Meilinda,Evelina Astra Patriot,Rudi Hermawan,Meryansumayeka Meryansumayeka,Septy Sari Yukans,Romi Fajar Tanjung,Muhammad Yazir,Hesti Wahyuni Anggraini,Windi Dwi Andika,Dian Eka Amrina,Muhammad Akbar Budiman,Dea Alvionita Azka,2025-06-14 This is an open access book Welcome to the Fifth Sriwijaya University Learning and Education International Conference 2024 SULE IC 2024 This year the theme of the conference is Reimagining and Redesigning Learning Toward Equitable Education The theme of the conference reflects the redesigning of learning for all students in the post pandemic period in order to overcome learning loss during the pandemic The theme also made possible the exchange of information knowledge experience and view for improving the quality of learning and research in the world especially in Indonesia **Practical Numerical and Scientific Computing with MATLAB® and Python** Eihab B. M. Bashier,2020-03-18 Practical Numerical and Scientific Computing with MATLAB and Python concentrates on the practical aspects of numerical analysis and linear and non linear programming It discusses the methods for solving different types of mathematical problems using MATLAB and Python Although the book focuses on the approximation problem rather than on error analysis of mathematical problems it provides practical ways to calculate errors The book is divided into three parts covering topics in numerical linear algebra methods of interpolation numerical differentiation and integration solutions of differential equations linear and non linear programming problems and optimal control problems This book has the following advantages It adopts the programming languages MATLAB and Python which are widely used among academics scientists and engineers for ease of use and contain many libraries covering many scientific and engineering fields It contains topics that are rarely found in other numerical analysis books such as ill conditioned linear systems and methods of regularization to stabilize their solutions nonstandard finite differences methods for solutions of ordinary differential equations and the computations of the optimal controls It provides a practical explanation of how to apply these topics using MATLAB and Python It discusses software libraries to solve mathematical problems such as software Gekko pulp and pyomo These libraries use Python for solutions to differential equations and static and dynamic optimization problems Most programs in the book can be applied in versions prior to MATLAB 2017b and Python 3 7 4 without the need to modify these programs This book is aimed at newcomers and middle level students as well as members of the scientific community who are interested in

solving math problems using MATLAB or Python

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