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NumPy

Third Edition

Build efficient, high-speed programs using the high-performance NumPy mathematical library

Beginner's Guide

Ivan Idris

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Numpy Beginners Guide Third Edition

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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. *NumPy Beginner's Guide (Second Edition)* Ivan Idris, 2013-04-25 The book is written in a 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, 2018

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.

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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** Posts & Telecom Press, Armando Fandango, 2024-02-28 Python Key Features 3 Book Description Python Python Python 12 Python NumPy Pandas Python 3 Python Python Python What will you learn Python NumPy Pandas Who this book is for Python Python **Designing and Developing Innovative Mobile Applications** Samanta, Debabrata, 2023-04-12 Since mobile communication has become so ingrained in our daily lives many people find it difficult to function without a cellphone When the phone first came out the only commonly used features were calling and sending text messages texts The intelligent mobile phone has proven to be a multipurpose tool that works best for communication and aids in learning earning and having fun This in turn prompted several developers to consider creating mobile applications Designing and Developing Innovative Mobile Applications focuses on the fundamentals of the Android OS and its device features the deployment of any Android application and the activities and intents of Android programming Covering key topics such as mobile pages software development and communication this premier reference source is ideal for computer scientists industry professionals researchers academicians scholars practitioners instructors and students **Hacker's Guide to Machine Learning Concepts** Trilokesh Khatri, 2025-01-03 Hacker's Guide to Machine Learning Concepts is crafted for those eager to dive into the world of ethical hacking This book demonstrates how ethical hacking can help companies identify and fix vulnerabilities efficiently With the rise of data and the evolving IT industry the scope of ethical hacking continues to expand We cover various hacking techniques identifying weak points in programs and how to address them The book is accessible even to beginners offering chapters on machine learning and programming in Python Written in an easy to understand manner it allows learners to practice hacking steps independently on Linux or Windows systems using tools like Netsparker This book equips you with fundamental and intermediate knowledge about hacking making it an invaluable resource for learners CompTIA CySA+ Cybersecurity Analyst Certification All-in-One Exam Guide, Third Edition (Exam CS0-003) Mya Heath, Bobby E. Rogers, Brent Chapman, Fernando Maymi, 2023-12-08 Prepare for the CompTIA CySA certification exam using this fully updated self study resource Take the current version of the challenging CompTIA CySA TM certification exam with confidence using the detailed information contained in this up to date integrated study system Based on proven pedagogy the book contains detailed explanations real world examples step by step exercises and exam focused special elements that teach and reinforce practical skills CompTIA CySA TM Cybersecurity Analyst Certification All in One Exam Guide Third Edition Exam CS0 003 covers 100% of 2023 exam objectives and features re structured content and new topics Online content enables you to test yourself with full length timed practice exams or create customized quizzes by chapter or exam domain Designed to help you pass the exam with ease this comprehensive guide also serves as an essential on the job reference Includes access to the TotalTester Online test engine with 170 multiple choice practice exam questions and additional performance based questions Includes a 10% off exam voucher coupon a 39 value Written by a team of recognized

cybersecurity experts 01-04-2025,Pythonic AI Arindam Banerjee,2023-10-31 Unlock the power of AI with Python Your Journey from Novice to Neural Nets KEY FEATURES Learn to code in Python and use Google Colab s hardware accelerators GPU and TPU to train and deploy AI models efficiently Develop Convolutional Neural Networks CNNs using the TensorFlow 2 library for computer vision tasks Develop sequence attention based and Transformer models using the TensorFlow 2 library for Natural Language Processing NLP tasks DESCRIPTION Pythonic AI is a book that teaches you how to build AI models using Python It also includes practical projects in different domains so you can see how AI is used in the real world Besides teaching how to build AI models the book also teaches how to understand and explore the opportunities that AI presents It includes several hands on projects that walk you through successful AI applications explaining concepts like neural networks computer vision natural language processing NLP and generative models Each project in the book also reiterates and reinforces the important aspects of Python scripting You ll learn Python coding and how it can be used to build cutting edge AI applications The author explains each essential line of Python code in detail taking into account the importance and difficulty of understanding By the end of the book you will learn how to develop a portfolio of AI projects that will help you land your dream job in AI WHAT YOU WILL LEARN Create neural network models using the TensorFlow 2 library Develop Convolutional Neural Networks CNNs for computer vision tasks Develop Sequence models for Natural Language Processing NLP tasks Create Attention based and Transformer models Learn how to create Generative Adversarial Networks GANs WHO THIS BOOK IS FOR This book is for everyone who wants to learn how to build AI applications in Python regardless of their experience level Whether you re a student a tech professional a non techie or a technology enthusiast this book will teach you the fundamentals of Python and AI and show you how to apply them to real world problems TABLE OF CONTENTS 1 Python Kickstart Concepts Libraries and Coding 2 Setting up AI Lab 3 Design My First Neural Network Model 4 Explore Designing CNN with TensorFlow 5 Develop CNN based Image Classifier Apps 6 Train and Deploy Object Detection Models 7 Create a Text and Image Reader 8 Explore NLP for Advanced Text Analysis 9 Up and Running with Sequence Models 10 Using Sequence Models for Automated Text Classification 11 Create Attention and Transformer Models 12 Generating Captions for Images 13 Learn to Build GAN Models 14 Generate Artificial Faces Using GAN NumPy: Beginner's Guide - Third Edition Ivan Idris,2015-06-24 About This Book Written as a step by step guide this book aims to give you a strong foundation in NumPy and breaks down its complex library features into simple tasks Perform high performance calculations with clean and efficient NumPy code Analyze large datasets with statistical functions and execute complex linear algebra and mathematical computations Who This Book Is For This book is for the scientists engineers programmers or analysts looking for a high quality open source mathematical library Knowledge of Python is assumed Also some affinity or at least interest in mathematics and statistics is required However I have provided

brief explanations and pointers to learning resources *A Student's Guide to Python for Physical Modeling* Jesse M. Kinder, Philip Nelson, 2018-01-30 A fully updated tutorial on the basics of the Python programming language for science students Python is a computer programming language that is rapidly gaining popularity throughout the sciences This fully updated edition of *A Student's Guide to Python for Physical Modeling* aims to help you the student teach yourself enough of the Python programming language to get started with physical modeling You will learn how to install an open source Python programming environment and use it to accomplish many common scientific computing tasks importing exporting and visualizing data numerical analysis and simulation No prior programming experience is assumed This tutorial focuses on fundamentals and introduces a wide range of useful techniques including Basic Python programming and scripting Numerical arrays Two and three dimensional graphics Monte Carlo simulations Numerical methods including solving ordinary differential equations Image processing Animation Numerous code samples and exercises with solutions illustrate new ideas as they are introduced Web based resources also accompany this guide and include code samples data sets and more This current edition brings the discussion of the Python language Spyder development environment and Anaconda distribution up to date In addition a new appendix introduces Jupyter notebooks **Practical Network Automation**

Abhishek Ratan, 2018-12-26 Leverage the power of Python Ansible and other network automation tools to make your network robust and more secure Key Features Get introduced to the concept of network automation with relevant use cases Apply Continuous Integration and DevOps to improve your network performance Implement effective automation using tools such as Python Ansible and more Book Description Network automation is the use of IT controls to supervise and carry out everyday network management functions It plays a key role in network virtualization technologies and network functions The book starts by providing an introduction to network automation and its applications which include integrating DevOps tools to automate the network efficiently It then guides you through different network automation tasks and covers various data digging and performing tasks such as ensuring golden state configurations using templates interface parsing This book also focuses on Intelligent Operations using Artificial Intelligence and troubleshooting using chatbots and voice commands The book then moves on to the use of Python and the management of SSH keys for machine to machine M2M communication all followed by practical use cases The book also covers the importance of Ansible for network automation including best practices in automation ways to test automated networks using tools such as Puppet SaltStack and Chef and other important techniques Through practical use cases and examples this book will acquaint you with the various aspects of network automation It will give you the solid foundation you need to automate your own network without any hassle What you will learn Get started with the fundamental concepts of network automation Perform intelligent data mining and remediation based on triggers Understand how AIOps works in operations Trigger automation through data factors Improve your data center's robustness and security through data digging Get access infrastructure through API Framework for chatbot and

voice interactive troubleshootingSet up communication with SSH based devices using NetmikoWho this book is for If you are a network engineer or a DevOps professional looking for an extensive guide to help you automate and manage your network efficiently then this book is for you No prior experience with network automation is required to get started however you will need some exposure to Python programming to get the most out of this book **Advanced Python Guide** Kriti Kumari Sinha,2024-05-18 Unlock your coding potential with Python KEY FEATURES Master Python basics to job ready skills all within one comprehensive guide Understand emerging trends and the future of Python programming Understand through interactive exercises practical case studies and ready to run code examples DESCRIPTION This book introduces Python a flexible programming language Master the fundamentals then leverage Python s capabilities to solve problems automate tasks and bring your ideas to life In today s tech driven world Python transforms you into a creator not just a consumer This comprehensive guide equips you with the fundamentals of Python programming from installing it and setting up your environment to mastering core concepts like variables data structures functions and object oriented programming OOP Explore Python s standard library modules for common tasks like file handling and delve into writing clean Pythonic code using advanced techniques like list comprehensions This book also covers optional advanced topics like concurrency networking and data science applications Further you will be able to ensure code quality with testing and debugging techniques mentioned in the book and learn the best practices for a professional setup PEP 8 Finally apply your Python skills by building real world projects and prepare for Python developer interviews with confidence With its clear explanations technical accuracy and focus on best practices this book is your one stop shop for mastering Python and unlocking its vast potential WHAT YOU WILL LEARN Master Python basics by understanding variables data types and operators Enhance your problem solving abilities by employing loops conditionals and algorithms Hands on coding experiences constructing practical projects such as calculators and games Data exploration by analyzing data sets visualizing trends and making informed decisions Join the Python community to collaborate share and contribute to open source projects WHO THIS BOOK IS FOR This book is ideal for aspiring learners professionals transitioning to Python curious researchers and students No prior knowledge of Python is required TABLE OF CONTENTS 1 Introduction to Python 2 Python Basics 3 Data Structures 4 Functions 5 Object oriented Programming 6 File Handling 7 Modules and Packages 8 Python s Standard Library and Third party Libraries 9 Pythonic Programming 10 Advanced Topics in Python 11 Testing and Debugging 12 Best Practices and Coding Standards 13 Building Real world Applications 14 Python s Future and Trends 15 Hands on Python Programming 16 Python Interview Preparation Beginners 17 Python Interview Preparation for Experienced Developers

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