Cyrille Rossant

IPython Interactive Computing and Visualization Cookbook

Second Edition

Over 100 hands-on recipes to sharpen your skills in high-performance numerical computing and data science in the Jupyter Notebook

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Ipython Interactive Computing And Visualization Cookbook

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IPython Interactive Computing and Visualization Cookbook Cyrille Rossant,2014-09-25 Intended to anyone interested in numerical computing and data science students researchers teachers engineers analysts hobbyists Basic knowledge of Python NumPy is recommended Some skills in mathematics will help you understand the theory behind the computational methods **IPython Interactive Computing and Visualization Cookbook** Cyrille Rossant,2018-01-31 Learn to use IPython and Jupyter Notebook for your data analysis and visualization work Key Features Leverage the Jupyter Notebook for interactive data science and visualization Become an expert in high performance computing and visualization for data analysis and scientific modeling A comprehensive coverage of scientific computing through many hands on example driven recipes with detailed step by step explanations Book Description Python is one of the leading open source platforms for data science and numerical computing IPython and the associated Jupyter Notebook offer efficient interfaces to Python for data analysis and interactive visualization and they constitute an ideal gateway to the platform IPython Interactive Computing and Visualization Cookbook Second Edition contains many ready to use focused recipes for high performance scientific computing and data analysis from the latest IPython Jupyter features to the most advanced tricks to help you write better and faster code You will apply these state of the art methods to various real world examples illustrating topics in applied mathematics scientific modeling and machine learning The first part of the book covers programming techniques code quality and reproducibility code optimization high performance computing through just in time compilation parallel computing and graphics card programming The second part tackles data science statistics machine learning signal and image processing dynamical systems and pure and applied mathematics What you will learn Master all features of the Jupyter Notebook Code better write high quality readable and well tested programs profile and optimize your code and conduct reproducible interactive computing experiments Visualize data and create interactive plots in the Jupyter Notebook Write blazingly fast Python programs with NumPy ctypes Numba Cython OpenMP GPU programming CUDA parallel IPython Dask and more Analyze data with Bayesian or frequentist statistics Pandas PyMC and R and learn from actual data through machine learning scikit learn Gain valuable insights into signals images and sounds with SciPy scikit image and OpenCV Simulate deterministic and stochastic dynamical systems in Python Familiarize yourself with math in Python using SymPy and Sage algebra analysis logic graphs geometry and probability theory Who this book is for This book is intended for anyone interested in numerical computing and data science students researchers teachers engineers analysts and hobbyists A basic knowledge of Python NumPy is recommended Some skills in mathematics will help you understand the theory behind the computational methods Learning IPython for Interactive Computing and Data Visualization Cyrille Rossant,2015-10-21 Get started with Python for data analysis and numerical computing in the Jupyter notebook About This Book Learn the basics of Python in the Jupyter Notebook Analyze and visualize data with pandas NumPy matplotlib and seaborn Perform highly efficient numerical computations with Numba Cython and ipyparallel Who This Book Is For This book targets students teachers researchers engineers analysts journalists hobbyists and all data enthusiasts who are interested in analyzing and visualizing real world datasets If you are new to programming and data analysis this book is exactly for you If you re already familiar with another language or analysis software you will also appreciate this introduction to the Python data analysis platform Finally there are more technical topics for advanced readers No prior experience is required this book contains everything you need to know What You Will Learn Install Anaconda and code in Python in the Jupyter Notebook Load and explore datasets interactively Perform complex data manipulations effectively with pandas Create engaging data visualizations with matplotlib and seaborn Simulate mathematical models with NumPy Visualize and process images interactively in the Jupyter Notebook with scikit image Accelerate your code with Numba Cython and IPython parallel Extend the Notebook interface with HTML JavaScript and D3 In Detail Python is a user friendly and powerful programming language IPython offers a convenient interface to the language and its analysis libraries while the Jupyter Notebook is a rich environment well adapted to data science and visualization Together these open source tools are widely used by beginners and experts around the world and in a huge variety of fields and endeavors This book is a beginner friendly guide to the Python data analysis platform After an introduction to the Python language IPython and the Jupyter Notebook you will learn how to analyze and visualize data on real world examples how to create graphical user interfaces for image processing in the Notebook and how to perform fast numerical computations for scientific simulations with NumPy Numba Cython and ipyparallel By the end of this book you will be able to perform in depth analyses of all sorts of data Style and approach This is a hands on beginner friendly guide to analyze and visualize data on real world examples with Python and the Jupyter Notebook **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 **Mastering pandas for Finance** Michael Heydt,2015-05-25 If you are interested in quantitative finance financial modeling and trading or simply want to learn how Python and pandas can be applied to finance then this book is ideal for you Some knowledge of Python and pandas is assumed Interest in financial concepts is helpful but no prior knowledge is expected **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 Python Data Visualization Cookbook Igor Milovanovic,Dimitry Foures,Giuseppe Vettigli,2015-11-30 Over 70 recipes to get you started with popular Python libraries based on the principal concepts of data visualization About This Book Learn how to set up an optimal Python environment for data visualization Understand how to import clean and organize your data Determine different approaches to data visualization and how to choose the most appropriate for your needs Who This Book Is For If you already know about Python programming and want to understand data data formats data visualization and how to use Python to visualize data then this book is for you What You Will Learn Introduce yourself to the essential tooling to set up your working environment Explore your data using the capabilities of standard Python Data Library and Panda Library Draw your first chart and customize it Use the most popular data visualization Python libraries Make 3D visualizations mainly using mplot3d Create charts with images and maps Understand the most appropriate charts to describe your data Know the matplotlib hidden gems Use plot ly to share your visualization online In Detail Python Data Visualization Cookbook will progress the reader from the point of installing and setting up a Python environment for data manipulation and visualization all the way to 3D animations using Python libraries Readers will benefit from over 60 precise and reproducible recipes that will guide the reader towards a better understanding of data concepts and the building blocks for subsequent and sometimes more advanced concepts Python Data Visualization Cookbook starts by showing how to set up matplotlib and the related libraries that are required for most parts of the book before moving on to discuss some of the lesser used diagrams and charts such as Gantt Charts or Sankey diagrams Initially it uses simple plots and charts to more advanced ones to make it easy to understand for readers As the readers will go through the book they will get to know about the 3D diagrams and animations Maps are irreplaceable for displaying geo spatial data so this book will also show how to build them In the last chapter it includes explanation on how to incorporate matplotlib into different environments such as a writing system LaTeX or how to create Gantt charts using Python Style and approach A step by step recipe based approach to data visualization The topics are explained sequentially as cookbook recipes consisting of a code snippet and the resulting visualization Mastering Julia Malcolm Sherrington,2015-07-22 Julia is a well constructed programming language with fast execution speed eliminating the classic problem of performing analysis in one language and translating it for performance into a second This book will help you develop and enhance your programming skills in Julia to solve real world automation challenges This book starts off with a refresher on installing and running Julia on different platforms Next you will compare the different ways of working with Julia and explore Julia s key features in depth by looking at design and build You will see how data works using simple statistics and analytics and discover Julia s speed its real strength which makes it particularly useful in highly intensive computing tasks and observe how Julia can cooperate with external processes in order to enhance graphics and data visualization Finally you will look into meta programming and learn how it adds great power to the language and establish networking and distributed computing with Julia *Natural Language Processing with TensorFlow* Thushan Ganegedara,2018-05-31 Write modern natural language processing applications using deep learning algorithms and TensorFlow Key Features Focuses on more efficient natural language processing using TensorFlow Covers NLP as a field in its own right to improve understanding for choosing TensorFlow tools and other deep learning approaches Provides choices for how to process and evaluate large unstructured text datasets Learn to apply the TensorFlow toolbox to specific tasks in the most interesting field in artificial intelligence Book Description Natural language processing NLP supplies the majority of data available to deep learning applications while TensorFlow is the most important deep learning framework currently available Natural Language Processing with TensorFlow brings TensorFlow and NLP together to give you invaluable tools to work with the immense volume of unstructured data in today s data streams and apply these tools to specific NLP tasks Thushan Ganegedara starts by giving you a grounding in NLP and TensorFlow basics You ll then learn how to use Word2vec including advanced extensions to create word embeddings that turn sequences of words into vectors accessible to deep learning algorithms Chapters on classical deep learning algorithms like convolutional neural networks CNN and recurrent neural networks RNN demonstrate important NLP tasks as sentence classification and language generation You will learn how to apply high performance RNN models like long short term memory LSTM cells to NLP tasks You will also explore neural machine translation and implement a neural machine translator After reading this book you will gain an understanding of NLP and you ll have the skills to apply TensorFlow in deep learning NLP applications and how to perform specific NLP tasks What you will learn Core concepts of NLP and various approaches to natural language processing How to solve NLP tasks by applying TensorFlow functions to create neural networks Strategies to process large amounts of data into word representations that can be used by deep learning applications Techniques for performing sentence classification and language generation using CNNs and RNNs About employing state of the art advanced RNNs like long short term memory to solve complex text generation tasks How to write automatic translation programs and implement an actual neural machine translator from scratch The trends and innovations that are paving the future in NLP Who this book is for This book is for Python developers with a strong interest in deep learning who want to learn how to leverage TensorFlow to simplify NLP tasks Fundamental Python skills are assumed as well as some knowledge of machine learning and undergraduate level calculus and linear algebra No previous natural language processing experience required although some background in NLP or computational linguistics will be helpful *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 **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 **Social Media Shaping e-Publishing and Academia** Nashrawan Taha,Rizik Al-Sayyed,Ja'far Alqatawna,Ali Rodan,2017-04-01 This book presents the current state of the art in the field of e publishing and social media particularly in the Arabic context The book discusses trends and challenges in the field of e publishing along with their implications for academic publishing information services e learning and other areas where electronic publishing is essential In particular it addresses 1 Applications of Social Media in Libraries and Information Centers 2 Use of Social Media and E publishing in E learning 3 Information Retrieval in Social Media and 4 Information Security in Social Media **Regression Analysis with Python** Luca Massaron,Alberto Boschetti,2016-02-29 Learn the art of regression analysis with Python About This Book Become competent at implementing regression analysis in Python Solve some of the complex data science problems related to predicting outcomes Get to grips with various types of regression for effective data analysis Who This Book Is For The book targets Python developers with a basic understanding of data science statistics and math who want to learn how to do regression analysis on a dataset It is beneficial if you have some knowledge of statistics and data science What You Will Learn Format a dataset for regression and evaluate its performance Apply multiple linear regression to real world problems Learn to classify training points Create an observation matrix using different techniques of data analysis and cleaning Apply several techniques to decrease and eventually fix any overfitting problem Learn to scale linear models to a big dataset and deal with incremental data In Detail Regression is the process of learning relationships between inputs and continuous outputs from example data which enables predictions for novel inputs There are many kinds of regression algorithms and the aim of this book is to explain which is the right one to use for each set of problems and how to prepare real world data for it With this book you will learn to define a simple regression problem and evaluate its performance The book will help you understand how to properly parse a dataset clean it and create an output matrix optimally built for regression You will begin with a simple regression algorithm to solve some data science problems and then progress to more complex algorithms The book will enable you to use regression models to predict outcomes and take critical business decisions Through the book you will gain knowledge to use Python for building fast better linear models and to apply the results in Python or in any computer language you prefer Style and approach This is a practical tutorial based book You will be given an example problem and then supplied with the relevant code and how to walk through it The details are provided in a step by step manner followed by a thorough explanation of the math underlying the solution This approach will help you leverage your own data using the same techniques WebGL

Insights Patrick Cozzi,2015-08-06 Given its ubiquity plugin free deployment and ease of development the adoption of WebGL is on the rise Skilled WebGL developers provide organizations with the ability to develop and implement efficient and robust solutions creating a growing demand for skilled WebGL developers WebGL Insights shares experience backed lessons learned by the WebGL **Large Scale Machine Learning with Python** Bastiaan Sjardin,Luca Massaron,Alberto Boschetti,2016-08-03 Learn to build powerful machine learning models quickly and deploy large scale predictive applications About This Book Design engineer and deploy scalable machine learning solutions with the power of Python Take command of Hadoop and Spark with Python for effective machine learning on a map reduce framework Build state of the art models and develop personalized recommendations to perform machine learning at scale Who This Book Is For This book is for anyone who intends to work with large and complex data sets Familiarity with basic Python and machine learning concepts is recommended Working knowledge in statistics and computational mathematics would also be helpful What You Will Learn Apply the most scalable machine learning algorithms Work with modern state of the art large scale machine learning techniques Increase predictive accuracy with deep learning and scalable data handling techniques Improve your work by combining the MapReduce framework with Spark Build powerful ensembles at scale Use data streams to train linear and non linear predictive models from extremely large datasets using a single machine In Detail Large Python machine learning projects involve new problems associated with specialized machine learning architectures and designs that many data scientists have yet to tackle But finding algorithms and designing and building platforms that deal with large sets of data is a growing need Data scientists have to manage and maintain increasingly complex data projects and with the rise of big data comes an increasing demand for computational and algorithmic efficiency Large Scale Machine Learning with Python uncovers a new wave of machine learning algorithms that meet scalability demands together with a high predictive accuracy Dive into scalable machine learning and the three forms of scalability Speed up algorithms that can be used on a desktop computer with tips on parallelization and memory allocation Get to grips with new algorithms that are specifically designed for large projects and can handle bigger files and learn about machine learning in big data environments We will also cover the most effective machine learning techniques on a map reduce framework in Hadoop and Spark in Python Style and Approach This efficient and practical title is stuffed full of the techniques tips and tools you need to ensure your large scale Python machine learning runs swiftly and seamlessly Large scale machine learning tackles a different issue to what is currently on the market Those working with Hadoop clusters and in data intensive environments can now learn effective ways of building powerful machine learning models from prototype to production This book is written in a style that programmers from other languages R Julia Java Matlab can follow **Python: Real World Machine Learning** Prateek Joshi,John Hearty,Bastiaan Sjardin,Luca Massaron,Alberto Boschetti,2016-11-14 Learn to solve challenging data science problems by building powerful machine learning models using Python About This Book Understand which algorithms to use in a given context with the help of this exciting recipe based guide This practical tutorial tackles real world computing problems through a rigorous and effective approach Build state of the art models and develop personalized recommendations to perform machine learning at scale Who This Book Is For This Learning Path is for Python programmers who are looking to use machine learning algorithms to create real world applications It is ideal for Python professionals who want to work with large and complex datasets and Python developers and analysts or data scientists who are looking to add to their existing skills by accessing some of the most powerful recent trends in data science Experience with Python Jupyter Notebooks and command line execution together with a good level of mathematical knowledge to understand the concepts is expected Machine learning basic knowledge is also expected What You Will Learn Use predictive modeling and apply it to real world problems Understand how to perform market segmentation using unsupervised learning Apply your new found skills to solve real problems through clearly explained code for every technique and test Compete with top data scientists by gaining a practical and theoretical understanding of cutting edge deep learning algorithms Increase predictive accuracy with deep learning and scalable data handling techniques Work with modern state of the art large scale machine learning techniques Learn to use Python code to implement a range of machine learning algorithms and techniques In Detail Machine learning is increasingly spreading in the modern data driven world It is used extensively across many fields such as search engines robotics self driving cars and more Machine learning is transforming the way we understand and interact with the world around us In the first module Python Machine Learning Cookbook you will learn how to perform various machine learning tasks using a wide variety of machine learning algorithms to solve real world problems and use Python to implement these algorithms The second module Advanced Machine Learning with Python is designed to take you on a guided tour of the most relevant and powerful machine learning techniques and you ll acquire a broad set of powerful skills in the area of feature selection and feature engineering The third module in this learning path Large Scale Machine Learning with Python dives into scalable machine learning and the three forms of scalability It covers the most effective machine learning techniques on a map reduce framework in Hadoop and Spark in Python This Learning Path will teach you Python machine learning for the real world The machine learning techniques covered in this Learning Path are at the forefront of commercial practice This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Python Machine Learning Cookbook by Prateek Joshi Advanced Machine Learning with Python by John Hearty Large Scale Machine Learning with Python by Bastiaan Sjardin Alberto Boschetti Luca Massaron Style and approach This course is a smooth learning path that will teach you how to get started with Python machine learning for the real world and develop solutions to real world problems Through this comprehensive course you ll learn to create the most effective machine learning techniques from scratch and more **Python Data Science Essentials** Alberto Boschetti,Luca Massaron,2016-10-28 Become an efficient data science practitioner by understanding Python s key concepts About This Book

Quickly get familiar with data science using Python 3 5 Save time and effort with all the essential tools explained Create effective data science projects and avoid common pitfalls with the help of examples and hints dictated by experience Who This Book Is For If you are an aspiring data scientist and you have at least a working knowledge of data analysis and Python this book will get you started in data science Data analysts with experience of R or MATLAB will also find the book to be a comprehensive reference to enhance their data manipulation and machine learning skills What You Will Learn Set up your data science toolbox using a Python scientific environment on Windows Mac and Linux Get data ready for your data science project Manipulate fix and explore data in order to solve data science problems Set up an experimental pipeline to test your data science hypotheses Choose the most effective and scalable learning algorithm for your data science tasks Optimize your machine learning models to get the best performance Explore and cluster graphs taking advantage of interconnections and links in your data In Detail Fully expanded and upgraded the second edition of Python Data Science Essentials takes you through all you need to know to suceed in data science using Python Get modern insight into the core of Python data including the latest versions of Jupyter notebooks NumPy pandas and scikit learn Look beyond the fundamentals with beautiful data visualizations with Seaborn and ggplot web development with Bottle and even the new frontiers of deep learning with Theano and TensorFlow Dive into building your essential Python 3 5 data science toolbox using a single source approach that will allow to to work with Python 2 7 as well Get to grips fast with data munging and preprocessing and all the techniques you need to load analyse and process your data Finally get a complete overview of principal machine learning algorithms graph analysis techniques and all the visualization and deployment instruments that make it easier to present your results to an audience of both data science experts and business users Style and approach The book is structured as a data science project You will always benefit from clear code and simplified examples to help you understand the underlying mechanics and real world datasets **Python Business Intelligence Cookbook** Robert Dempsey,2015-12-22 Leverage the computational power of Python with more than 60 recipes that arm you with the required skills to make informed business decisions About This Book Want to minimize risk and optimize profits of your business Learn to create efficient analytical reports with ease using this highly practical easy to follow guide Learn to apply Python for business intelligence tasks preparing exploring analyzing visualizing and reporting in order to make more informed business decisions using data at hand Learn to explore and analyze business data and build business intelligence dashboards with the help of various insightful recipes Who This Book Is For This book is intended for data analysts managers and executives with a basic knowledge of Python who now want to use Python for their BI tasks If you have a good knowledge and understanding of BI applications and have a working system in place this book will enhance your toolbox What You Will Learn Install Anaconda MongoDB and everything you need to get started with your data analysis Prepare data for analysis by querying cleaning and standardizing data Explore your data by creating a Pandas data frame from MongoDB Gain powerful insights both statistical and predictive to make informed business decisions Visualize your data by building dashboards and generating reports Create a complete data processing and business intelligence system In Detail The amount of data produced by businesses and devices is going nowhere but up In this scenario the major advantage of Python is that it s a general purpose language and gives you a lot of flexibility in data structures Python is an excellent tool for more specialized analysis tasks and is powered with related libraries to process data streams to visualize datasets and to carry out scientific calculations Using Python for business intelligence BI can help you solve tricky problems in one go Rather than spending day after day scouring Internet forums for how to information here you ll find more than 60 recipes that take you through the entire process of creating actionable intelligence from your raw data no matter what shape or form it s in Within the first 30 minutes of opening this book you ll learn how to use the latest in Python and NoSQL databases to glean insights from data just waiting to be exploited We ll begin with a quick fire introduction to Python for BI and show you what problems Python solves From there we move on to working with a predefined data set to extract data as per business requirements using the Pandas library and MongoDB as our storage engine Next we will analyze data and perform transformations for BI with Python Through this you will gather insightful data that will help you make informed decisions for your business The final part of the book will show you the most important task of BI visualizing data by building stunning dashboards using Matplotlib PyTables and iPython Notebook Style and approach This is a step by step guide to help you prepare explore analyze and report data written in a conversational tone to make it easy to grasp Whether you re new to BI or are looking for a better way to work you ll find the knowledge and skills here to get your job done efficiently

Advanced Interdisciplinary Applications of Machine Learning Python Libraries for Data Science Biju, Soly Mathew,Mishra, Ashutosh,Kumar, Manoj,2023-09-13 The world is approaching a point where big data will start to play a beneficial role in many industries and organizations Today analyzing data for new insights has become an everyday norm increasing the need for data analysts to use efficient and appropriate tools to provide quick and valuable results to clients Existing research in the field currently lacks a full coverage of all essential algorithms leaving a knowledge void for practical implementation and code in Python with all needed libraries and links to datasets used Advanced Interdisciplinary Applications of Machine Learning Python Libraries for Data Science serves as a one stop book to help emerging data scientists gain hands on skills needed through real world data and completely up to date Python code It covers all the technical details from installing the needed software to importing libraries and using the latest data sets deciding on the right model training testing and evaluating the model and including NumPy Pandas and matplotlib With coverage on various machine learning algorithms like regression linear and logical regression classification support vector machine SVM clustering k nearest neighbor market basket analysis Apriori k means clustering and visualization using Seaborne it is designed for academic researchers undergraduate students postgraduate students executive education program leaders and practitioners

Python Unlocked Arun Tigeraniya,2015-12-30 Become more fluent in Python learn strategies and techniques for smart and high performance Python programming About This Book Write smarter bug free high performance code with minimal effort Uncover the best tools and options available to Python developers today Deploy decorators design patters and various optimization techniques to use Python 3 5 effectively Who This Book Is For If you are a Python developer and you think that you don t know everything about the language yet then this is the book for you We will unlock the mysteries and re introduce you to the hidden features of Python to write efficient programs making optimal use of the language What You Will Learn Manipulate object creation processes for instances classes and functions Use the best possible language constructs to write data structures with super speed and maintainability Make efficient use of design patterns to decrease development time and make your code more maintainable Write better test cases with an improved understanding of the testing framework of Python and unittests and discover how to develop new functionalities in it Write fully optimized code with the Python language by profiling compiling C modules and more Unlock asynchronous programming to build efficient and scalable applications In Detail Python is a versatile programming language that can be used for a wide range of technical tasks computation statistics data analysis game development and more Though Python is easy to learn it s range of features means there are many aspects of it that even experienced Python developers don t know about Even if you re confident with the basics its logic and syntax by digging deeper you can work much more effectively with Python and get more from the language Python Unlocked walks you through the most effective techniques and best practices for high performance Python programming showing you how to make the most of the Python language You ll get to know objects and functions inside and out and will learn how to use them to your advantage in your programming projects You will also find out how to work with a range of design patterns including abstract factory singleton strategy pattern all of which will help make programming with Python much more efficient Finally as the process of writing a program is never complete without testing it you will learn to test threaded applications and run parallel tests If you want the edge when it comes to Python use this book to unlock the secrets of smarter Python programming Style and approach This is book had been created to help you to unlock the best ways to tackle the challenges and performance bottlenecks that many Python developers face today The keys are supported with program examples to help you understand the concepts better and see them in action

Discover tales of courage and bravery in is empowering ebook, Stories of Fearlessness: **Ipython Interactive Computing And Visualization Cookbook** . In a downloadable PDF format (*), this collection inspires and motivates. Download now to witness the indomitable spirit of those who dared to be brave.

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