Learning IPython for Interactive Computing and Data Visualization

Second Edition

Get started with Python for data analysis and numerical computing in the Jupyter notebook

Cyrille Rossant

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   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   **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, Second Edition 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 - Second Edition** Cyrille Rossant,2015 IPython provides a rich architecture for interactive computing and as a Python developer you can take advantage of this practical hands on guide to make yourself an expert Covers numerical computing data analysis and more Overview A practical step by step tutorial which will help you to replace the Python console with the powerful IPython command line interface Use the IPython notebook to modernize the way you interact with Python Perform highly efficient computations with NumPy and Pandas Optimize your code using parallel computing and Cython In Detail You already use Python as a scripting language but did you know it is also increasingly used for scientific computing and data analysis Interactive programming is essential in such exploratory tasks and IPython is the perfect tool for that Once you ve learnt it you won t be able to live without it Learning IPython for Interactive Computing and Data Visualization is a practical hands on example driven tutorial to considerably improve your productivity during interactive Python sessions and shows you how to effectively use IPython for interactive computing and data analysis This book covers all aspects of IPython from the highly powerful interactive Python console to the numerical and visualization features that are commonly associated with IPython

You will learn how IPython lets you perform efficient vectorized computations through examples covering numerical simulations with NumPy data analysis with Pandas and visualization with Matplotlib You will also discover how IPython can be conveniently used to optimize your code using parallel computing and dynamic compilation in C with Cython Learning IPython for Interactive Computing and Data Visualization will allow you to optimize your productivity in interactive Python sessions What you will learn from this book Debug your code from the IPython console Benchmark and profile your code from IPython Perform efficient vectorized computations with NumPy Analyze data tables with Pandas Create visualizations with Matplotlib Parallelize your code easily with IPython Customize IPython and create your own magic commands Accelerate your Python code using dynamic C compilation with Cython Approach A practical hands on guide which focuses on interactive programming numerical computing and data analysis with IPython Who this book is written for This book is for Python developers who use Python as a scripting language or for software development and are interested in learning IPython for increasing their productivity during interactive sessions in the console Knowledge of Python is required whereas no knowledge of IPython is necessary **Learning IPython for Interactive Computing and Data Visualization** Cyrille Rossant,2018 Python is a user friendly and powerful programming language IPython offers a convenient interface to the language and its analysis libraries while 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 course is a beginner friendly guide to the Python data analysis platform After an introduction to the Python language IPython and 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 Notebook and how to perform fast numerical computations for scientific simulations with NumPy Numba Cython and ipyparallel By the end of this course you will be able to perform in depth analyses of all sorts of data Resource description page **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 **Practical Data Science Cookbook** Prabhanjan Tattar,Tony Ojeda,Sean Patrick Murphy,Benjamin Bengfort,Abhijit Dasgupta,2017-06-29 Over 85 recipes to help you complete real world data science projects in R and Python About This Book Tackle every step in the data science pipeline and use it to acquire clean analyze and visualize your data Get beyond the theory and implement real world projects in data science using R and Python Easy to follow recipes will help you understand and implement the numerical computing concepts Who This Book Is For If you are an aspiring data scientist who wants to learn data science and numerical programming concepts through hands on real world project examples this is the book for you Whether you are brand new to data science or you are a seasoned expert you will benefit from learning about the structure of real world data science projects and the programming examples in R and Python What You Will Learn Learn and understand the installation procedure and environment required for R and Python on various platforms Prepare data for analysis by implement various data science concepts such as acquisition cleaning and munging through R and Python Build a predictive model and an exploratory model Analyze the results of your model and create reports on the acquired data Build various tree based methods and Build random forest In Detail As increasing amounts of data are generated each year the need to analyze and create value out of it is more important than ever Companies that know what to do with their data and how to do it well will have a competitive advantage over companies that don t Because of this there will be an increasing demand for people that possess both the analytical and technical abilities to extract valuable insights from data and create valuable solutions that put those insights to use Starting with the basics this book covers how to set up your numerical programming environment introduces you to the data science pipeline and guides you through several data projects in a step by step format By sequentially working through the steps in each chapter you will quickly familiarize yourself with the process and learn how to apply it to a variety of situations with examples using the two most popular programming languages for data analysis R and Python Style and approach This step by step guide to data science is full of hands on examples of real world data science tasks Each recipe focuses on a particular task involved in the data science pipeline ranging from readying the dataset to analytics and visualization **Python Projects for Kids** Jessica Ingrassellino,2016-04-14 Unleash Python and take your small readers on an adventurous ride through the world of programming About This Book Learn to start using Python for some simple programming tasks such as doing easy mathematical calculations Use logic and control loops to build a nice interesting game Get to grips with working with data and once you re comfortable with that you ll be introduced to Pygame which will help you wrap up the book with a cool game Who This Book Is For This book is for kids aged 10 and over

This is book is intended for absolute beginners who lack any knowledge of computing or programming languages and want to get started in the world of programming What You Will Learn Start fiddling with Python s variables build functions and interact with users Build your own calculator using the Math Library Train Python to make logical decisions Work with moving 2D objects on screen Understand the Pygame Library and build your very own game Write a cool program to manage inventories in your backpack In Detail Kids are always the most fast paced and enthusiastic learners and are naturally willing to build stuff that looks like magic at the end when it works Programming can be one such magic Being able to write a program that works helps them feel they ve really achieved something Kids today are very tech savvy and cannot wait to enter the fast paced digital world Because Python is one of the most popular languages and has a syntax that is quite simple to understand even kids are eager to use it as a stepping stone to learning programming languages This book will cover projects that are simple and fun and teach kids how to write Python code that works The book will teach the basics of Python programming installation and so on and then will move on to projects A total of three projects with each and every step explained carefully without any assumption of previous experience Style and approach The book will take a light approach in guiding the little readers through the world of Python The main idea is to teach by example and let the readers have as much exercises to do so that they learn faster and can apply their own ideas to the existing examples The book should get them thinking by the end on where they can go next with such a powerful tool at their disposal *Data Scientist Diploma (master's level) - City of London College of Economics - 6 months - 100% online / self-paced* City of London College of Economics, Overview This diploma course covers all aspects you need to know to become a successful Data Scientist Content Getting Started with Data Science Data Analytic Thinking Business Problems and Data Science Solutions Introduction to Predictive Modeling From Correlation to Supervised Segmentation Fitting a Model to Data Overfitting and Its Avoidance Similarity Neighbors and Clusters Decision Analytic Thinking I What Is a Good Model Visualizing Model Performance Evidence and Probabilities Representing and Mining Text Decision Analytic Thinking II Toward Analytical Engineering Other Data Science Tasks and Techniques Data Science and Business Strategy Machine Learning Learning from Data with Your Machine And much more Duration 6 months Assessment The assessment will take place on the basis of one assignment at the end of the course Tell us when you feel ready to take the exam and we ll send you the assignment questions Study material The study material will be provided in separate files by email download link **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 **Mastering matplotlib** Duncan M. McGreggor,2015-06-29 matplotlib is a Python plotting library that provides a large feature set for a multitude of platforms Given the depth of the library s legacy and the variety of related open source projects gaining expert knowledge can be a time consuming and often confusing process You ll begin your exciting journey learning about the skills that are necessary in leading technical teams for a visualization project or to become a matplotlib contributor Supported by highly detailed IPython Notebooks this book takes you through the conceptual components underlying the library and then provides a detailed overview of its APIs From there you will learn about event handling and how to code for interactive plots Next you will move on to customization techniques local configuration of matplotib and then deployments in Cloud environments The adventure culminates in an exploration of big data visualization and matplotlib clustering *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   <u>WebGL Insights</u> 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   **Interactive Applications Using Matplotlib** Benjamin V. Root,2015-03-24 This book is intended for Python programmers who want to do more than just see their data Experience with GUI toolkits is not required so this book can be

an excellent complement to other GUI programming resources **Python Game Programming By Example** Alejandro Rodas de Paz,Joseph Howse,2015-09-28 A pragmatic guide for developing your own games with Python About This Book Strengthen your fundamentals of game programming with Python language Seven hands on games to create 2D and 3D games rapidly from scratch Illustrative guide to explore the different GUI libraries for building your games Who This Book Is For If you have ever wanted to create casual games in Python and you would like to explore various GUI technologies that this language offers this is the book for you This title is intended for beginners to Python with little or no knowledge of game development and it covers step by step how to build seven different games from the well known Space Invaders to a classical 3D platformer What You Will Learn Take advantage of Python s clean syntax to build games quickly Discover distinct frameworks for developing graphical applications Implement non player characters NPCs with autonomous and seemingly intelligent behaviors Design and code some popular games like Pong and tower defense Compose maps and levels for your sprite based games in an easy manner Modularize and apply object oriented principles during the design of your games Exploit libraries like Chimpunk2D cocos2d and Tkinter Create natural user interfaces NUIs using a camera and computer vision algorithms to interpret the player s real world actions In Detail With a growing interest in learning to program game development is an appealing topic for getting started with coding From geometry to basic Artificial Intelligence algorithms there are plenty of concepts that can be applied in almost every game Python is a widely used general purpose high level programming language It provides constructs intended to enable clear programs on both a small and large scale It is the third most popular language whose grammatical syntax is not predominantly based on C Python is also very easy to code and is also highly flexible which is exactly what is required for game development The user friendliness of this language allows beginners to code games without too much effort or training Python also works with very little code and in most cases uses the use cases approach reserving lengthy explicit coding for outliers and exceptions making game development an achievable feat Python Game Programming by Example enables readers to develop cool and popular games in Python without having in depth programming knowledge of Python The book includes seven hands on projects developed with several well known Python packages as well as a comprehensive explanation about the theory and design of each game It will teach readers about the techniques of game design and coding of some popular games like Pong and tower defense Thereafter it will allow readers to add levels of complexities to make the games more fun and realistic using 3D At the end of the book you will have added several GUI libraries like Chimpunk2D cocos2d and Tkinter in your tool belt as well as a handful of recipes and algorithms for developing games with Python Style and approach This book is an example based guide that will teach you to build games using Python This book follows a step by step approach as it is aimed at beginners who would like to get started with basic game development By the end of this book you will be competent game developers with good knowledge of programming in Python *Mastering IPython 4.0* Thomas Bitterman,2016-05-30 Get to grips with the advanced concepts of

interactive computing to make the most out of IPython About This Book Most updated book on Interactive computing with IPython 4 0 Detailed example rich guide that lets you use the most advanced level interactive programming with IPython Get flexible interactive programming with IPython using this comprehensive guide Who This Book Is For This book is for IPython developers who want to make the most of IPython and perform advanced scientific computing with IPython utilizing the ease of interactive computing It is ideal for users who wish to learn about the interactive and parallel computing properties of IPython 4 0 along with its integration with third party tools and concepts such as testing and documenting results What You Will Learn Develop skills to use IPython for high performance computing HPC Understand the IPython interactive shell Use XeroMQ and MPI to pass messages Integrate third party tools like R Julia and JavaScript with IPython Visualize the data Acquire knowledge to test and document the data Get to grips with the recent developments in the Jupyter notebook system In Detail IPython is an interactive computational environment in which you can combine code execution rich text mathematics plots and rich media This book will get IPython developers up to date with the latest advancements in IPython and dive deep into interactive computing with IPython This an advanced guide on interactive and parallel computing with IPython will explore advanced visualizations and high performance computing with IPython in detail You will quickly brush up your knowledge of IPython kernels and wrapper kernels then we ll move to advanced concepts such as testing Sphinx JS events interactive work and the ZMQ cluster The book will cover topics such as IPython Console Lexer advanced configuration and third party tools By the end of this book you will be able to use IPython for interactive and parallel computing in a high performance computing environment Style and approach This is a comprehensive guide to IPython for interactive exploratory and parallel computing It will let the IPython get up to date with the latest advancements in IPython and dive deeper into interactive computing with IPython   **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 **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 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   *Learning Predictive Analytics with Python* Ashish Kumar,2016-02-15 Gain practical insights into predictive modelling by implementing Predictive Analytics algorithms on public datasets with Python About This Book A step by step guide to predictive modeling including lots of tips tricks and best practices Get to grips with the basics of Predictive Analytics with Python Learn how to use the popular predictive modeling algorithms such as Linear Regression Decision Trees Logistic Regression and Clustering Who This Book Is For If you wish to learn how to implement Predictive Analytics algorithms using Python libraries then this is the book for you If you are familiar with coding in Python or some other programming statistical scripting language but have never used or read about Predictive Analytics algorithms this book will also help you The book will be beneficial to and can be read by any Data Science enthusiasts Some familiarity with Python will be useful to get the most out of this book but it is certainly not a prerequisite What You Will Learn Understand the statistical and mathematical concepts behind Predictive Analytics algorithms and implement Predictive Analytics algorithms using Python libraries Analyze the result parameters arising from the implementation of Predictive Analytics algorithms Write Python modules functions from scratch to execute segments or the whole of these algorithms Recognize and mitigate various contingencies and issues related to the implementation of Predictive Analytics algorithms Get to know various methods of importing cleaning sub setting merging joining concatenating exploring grouping and plotting data with pandas and numpy Create dummy datasets and simple mathematical simulations using the Python numpy and pandas libraries Understand the best practices while handling datasets in Python and creating predictive models out of them In Detail Social Media and the Internet of Things have resulted in an avalanche of data Data is powerful but not in its raw form It needs to be processed and modeled and Python is one of the most robust tools out there to do so It has an array of packages for predictive modeling and a suite of IDEs to choose from Learning to predict who would win lose buy lie or die with Python is an indispensable skill set to have in this data age This book is your guide to getting started with Predictive Analytics using Python You will see how to process data and make predictive models from it We balance both statistical and mathematical concepts and implement them in Python using libraries such as pandas scikit learn and numpy You ll start by getting an understanding of the basics of predictive modeling then you will see how to cleanse your

data of impurities and get it ready it for predictive modeling You will also learn more about the best predictive modeling algorithms such as Linear Regression Decision Trees and Logistic Regression Finally you will see the best practices in predictive modeling as well as the different applications of predictive modeling in the modern world Style and approach All the concepts in this book been explained and illustrated using a dataset and in a step by step manner The Python code snippet to implement a method or concept is followed by the output such as charts dataset heads pictures and so on The statistical concepts are explained in detail wherever required

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