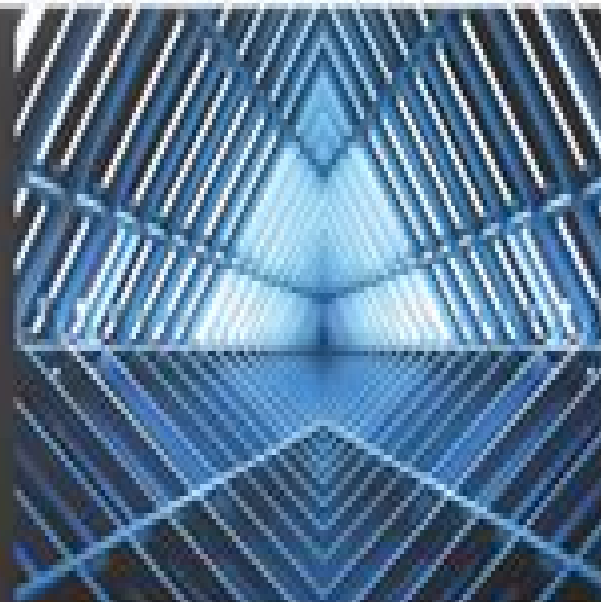




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Learning IPython for Interactive Computing and Data Visualization

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

**Prabhanjan Tattar, Tony Ojeda, Sean
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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 *Python Data Science Essentials* Alberto Boschetti, Luca Massaron, 2018-09-28 Gain useful insights from your data using popular data science tools Key Features A one stop guide to Python libraries such as pandas and NumPy Comprehensive coverage of data science operations such as data cleaning and data manipulation Choose scalable learning algorithms for your data science tasks Book Description Fully expanded and upgraded the latest edition of Python Data Science Essentials will help you succeed in data science operations using the most common Python libraries This book offers up to date insight into the core of Python including the latest versions of the Jupyter Notebook NumPy pandas and scikit learn The book covers detailed examples and large hybrid datasets to help you grasp essential statistical techniques for data collection data munging and analysis visualization and reporting activities You will also gain an understanding of advanced data science topics such as machine learning algorithms distributed computing tuning predictive models and natural language processing Furthermore You ll also be introduced to deep learning and gradient boosting solutions such as XGBoost LightGBM and CatBoost By the end of the book you will have gained a complete overview of the 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 What you will learn Set up your data science toolbox on Windows Mac and Linux Use the core machine learning methods offered by the scikit learn library Manipulate fix and explore data to solve data science problems Learn advanced explorative and manipulative techniques to solve data operations Optimize your machine learning models for optimized performance Explore and cluster graphs taking advantage of interconnections and links in your data Who this book is for If you re a data science entrant data analyst or data engineer this book will help you get ready to tackle real world data science problems without

wasting any time Basic knowledge of probability statistics and Python coding experience will assist you in understanding the concepts covered in this book

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

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