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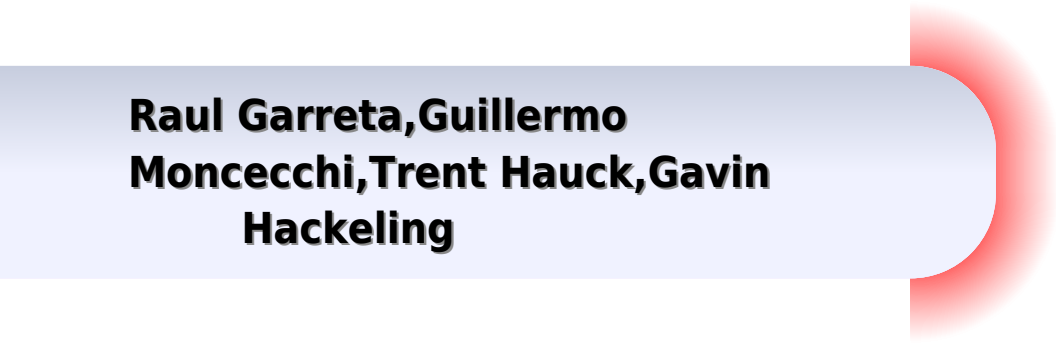
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**Raul Garreta,Guillermo
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scikit-learn : Machine Learning Simplified Raul Garreta, Guillermo

Moncecchi,Trent Hauck,Gavin Hackeling,2017-11-10 Implement scikit learn into every step of the data science pipeline
About This Book Use Python and scikit learn to create intelligent applications Discover how to apply algorithms in a variety of situations to tackle common and not so common challenges in the machine learning domain A practical example based guide to help you gain expertise in implementing and evaluating machine learning systems using scikit learn Who This Book Is For If you are a programmer and want to explore machine learning and data based methods to build intelligent applications and enhance your programming skills this is the course for you No previous experience with machine learning algorithms is required What You Will Learn Review fundamental concepts including supervised and unsupervised experiences common tasks and performance metrics Classify objects from documents to human faces and flower species based on some of their features using a variety of methods from Support Vector Machines to Naive Bayes Use Decision Trees to explain the main causes of certain phenomena such as passenger survival on the Titanic Evaluate the performance of machine learning systems in common tasks Master algorithms of various levels of complexity and learn how to analyze data at the same time Learn just enough math to think about the connections between various algorithms Customize machine learning algorithms to fit your problem and learn how to modify them when the situation calls for it Incorporate other packages from the Python ecosystem to munge and visualize your dataset Improve the way you build your models using parallelization techniques In Detail Machine learning the art of creating applications that learn from experience and data has been around for many years Python is quickly becoming the go to language for analysts and data scientists due to its simplicity and flexibility moreover within the Python data space scikit learn is the unequivocal choice for machine learning The course combines an introduction to some of the main concepts and methods in machine learning with practical hands on examples of real world problems The course starts by walking through different methods to prepare your data be it a dataset with missing values or text columns that require the categories to be turned into indicator variables After the data is ready you ll learn different techniques aligned with different objectives be it a dataset with known outcomes such as sales by state or more complicated problems such as clustering similar customers Finally you ll learn how to polish your algorithm to ensure that it s both accurate and resilient to new datasets You will learn to incorporate machine learning in your applications Ranging from handwritten digit recognition to document classification examples are solved step by step using scikit learn and Python By the end of this course you will have learned how to build applications that learn from experience by applying the main concepts and techniques of machine learning Style and Approach Implement scikit learn using engaging examples and fun exercises and with a gentle and friendly but comprehensive learn by doing approach This is a practical course which analyzes compelling data about life health and death with the help of tutorials It offers you a useful way of interpreting the data that s specific to this course but that can also be applied to any other data This course is designed to be both a guide and a reference for moving beyond the basics of scikit learn **Machine Learning with scikit-learn Quick Start Guide** Kevin

Jolly,2018-10-30 Deploy supervised and unsupervised machine learning algorithms using scikit learn to perform classification regression and clustering Key FeaturesBuild your first machine learning model using scikit learnTrain supervised and unsupervised models using popular techniques such as classification regression and clusteringUnderstand how scikit learn can be applied to different types of machine learning problemsBook Description Scikit learn is a robust machine learning library for the Python programming language It provides a set of supervised and unsupervised learning algorithms This book is the easiest way to learn how to deploy optimize and evaluate all of the important machine learning algorithms that scikit learn provides This book teaches you how to use scikit learn for machine learning You will start by setting up and configuring your machine learning environment with scikit learn To put scikit learn to use you will learn how to implement various supervised and unsupervised machine learning models You will learn classification regression and clustering techniques to work with different types of datasets and train your models Finally you will learn about an effective pipeline to help you build a machine learning project from scratch By the end of this book you will be confident in building your own machine learning models for accurate predictions What you will learnLearn how to work with all scikit learn s machine learning algorithmsInstall and set up scikit learn to build your first machine learning modelEmploy Unsupervised Machine Learning Algorithms to cluster unlabelled data into groupsPerform classification and regression machine learningUse an effective pipeline to build a machine learning project from scratchWho this book is for This book is for aspiring machine learning developers who want to get started with scikit learn Intermediate knowledge of Python programming and some fundamental knowledge of linear algebra and probability will help *Mastering Predictive Analytics with scikit-learn and TensorFlow*

Alvaro Fuentes,2018-09-29 Learn advanced techniques to improve the performance and quality of your predictive models Key FeaturesUse ensemble methods to improve the performance of predictive analytics modelsImplement feature selection dimensionality reduction and cross validation techniquesDevelop neural network models and master the basics of deep learningBook Description Python is a programming language that provides a wide range of features that can be used in the field of data science Mastering Predictive Analytics with scikit learn and TensorFlow covers various implementations of ensemble methods how they are used with real world datasets and how they improve prediction accuracy in classification and regression problems This book starts with ensemble methods and their features You will see that scikit learn provides tools for choosing hyperparameters for models As you make your way through the book you will cover the nitty gritty of predictive analytics and explore its features and characteristics You will also be introduced to artificial neural networks and TensorFlow and how it is used to create neural networks In the final chapter you will explore factors such as computational power along with improvement methods and software enhancements for efficient predictive analytics By the end of this book you will be well versed in using deep neural networks to solve common problems in big data analysis What you will learnUse ensemble algorithms to obtain accurate predictionsApply dimensionality reduction techniques to combine features and build

better models Choose the optimal hyperparameters using cross validation Implement different techniques to solve current challenges in the predictive analytics domain Understand various elements of deep neural network DNN models Implement neural networks to solve both classification and regression problems Who this book is for Mastering Predictive Analytics with scikit learn and TensorFlow is for data analysts software engineers and machine learning developers who are interested in implementing advanced predictive analytics using Python Business intelligence experts will also find this book indispensable as it will teach them how to progress from basic predictive models to building advanced models and producing more accurate predictions Prior knowledge of Python and familiarity with predictive analytics concepts are assumed **Scikit-learn**

Cookbook Trent Hauck, 2014 If you're a data scientist already familiar with Python but not Scikit Learn or are familiar with other programming languages like R and want to take the plunge with the gold standard of Python machine learning libraries then this is the book for you

The book delves into Scikit Learn Cookbook Hauck Trent. Scikit Learn Cookbook Hauck Trent is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Scikit Learn Cookbook Hauck Trent, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Scikit Learn Cookbook Hauck Trent
 - Chapter 2: Essential Elements of Scikit Learn Cookbook Hauck Trent
 - Chapter 3: Scikit Learn Cookbook Hauck Trent in Everyday Life
 - Chapter 4: Scikit Learn Cookbook Hauck Trent in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Scikit Learn Cookbook Hauck Trent. The first chapter will explore what Scikit Learn Cookbook Hauck Trent is, why Scikit Learn Cookbook Hauck Trent is vital, and how to effectively learn about Scikit Learn Cookbook Hauck Trent.
3. In chapter 2, this book will delve into the foundational concepts of Scikit Learn Cookbook Hauck Trent. This chapter will elucidate the essential principles that need to be understood to grasp Scikit Learn Cookbook Hauck Trent in its entirety.
4. In chapter 3, the author will examine the practical applications of Scikit Learn Cookbook Hauck Trent in daily life. The third chapter will showcase real-world examples of how Scikit Learn Cookbook Hauck Trent can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Scikit Learn Cookbook Hauck Trent in specific contexts. The fourth chapter will explore how Scikit Learn Cookbook Hauck Trent is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Scikit Learn Cookbook Hauck Trent. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Scikit Learn Cookbook Hauck Trent.

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