

scikit-learn Cookbook

Over 50 recipes to incorporate scikit-learn into every step of the data science pipeline, from feature extraction to model building and model evaluation



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Alvaro Fuentes

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Scikit-Learn Cookbook Trent Hauck, 2014-10-31 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 scikit-learn Cookbook Julian Avila, Trent Hauck, 2017-11-16 Learn to use scikit learn operations and functions for Machine Learning and deep learning applications About This Book Handle a variety of machine learning tasks effortlessly by leveraging the power of scikit learn Perform supervised and unsupervised learning with ease and evaluate the performance of your model Practical easy to understand recipes aimed at helping you choose the right machine learning algorithm Who This Book Is For Data Analysts already familiar with Python but not so much with scikit learn who want quick solutions to the common machine learning problems will find this book to be very useful If you are a Python programmer who wants to take a dive into the world of machine learning in a practical manner this book will help you too What You Will Learn Build predictive models in minutes by using scikit learn Understand the differences and relationships between Classification and Regression two types of Supervised Learning Use distance metrics to predict in Clustering a type of Unsupervised Learning Find points with similar characteristics with Nearest Neighbors Use automation and cross validation to find a best model and focus on it for a data product Choose among the best algorithm of many or use them together in an ensemble Create your own estimator with the simple syntax of sklearn Explore the feed forward neural networks available in scikit learn In Detail Python is quickly becoming the go to language for analysts and data scientists due to its simplicity and flexibility and within the Python data space scikit learn is the unequivocal choice for machine learning This book includes walk throughs and solutions to the common as well as the not so common problems in machine learning and how scikit learn can be leveraged to perform various machine learning tasks effectively The second edition begins with taking you through recipes on evaluating the statistical properties of data and generates synthetic data for machine learning modelling As you progress through the chapters you will comes across recipes that will teach you to implement techniques like data pre processing linear regression logistic regression K NN Naive Bayes classification decision trees Ensembles and much more Furthermore you ll learn to optimize your models with multi class classification cross validation model evaluation and dive deeper in to implementing deep learning with scikit learn Along with covering the enhanced features on model section API and new features like classifiers regressors and estimators the book also contains recipes on evaluating and fine tuning the performance of your model By the end of this book you will have explored plethora of features offered by scikit learn for Python to solve any machine learning problem you come across Style and Approach This book consists of practical recipes on scikit learn that target novices as well as intermediate users It goes deep into the technical issues covers additional protocols and many more real live examples so that you are able to implement it in your daily life scenarios scikit-learn: Machine Learning Simplified Raul Garreta, Guillermo Moncecchi, Trent Hauck, Gavin

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optimal hyperparameters using cross validationImplement different techniques to solve current challenges in the predictive analytics domainUnderstand various elements of deep neural network DNN modelsImplement neural networks to solve both classification and regression problemsWho 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

Whispering the Techniques of Language: An Psychological Journey through Scikit Learn Cookbook Hauck Trent

In a digitally-driven earth wherever screens reign great and quick communication drowns out the subtleties of language, the profound strategies and mental subtleties hidden within words often go unheard. However, nestled within the pages of **Scikit Learn Cookbook Hauck Trent** a charming fictional treasure pulsating with fresh feelings, lies a fantastic journey waiting to be undertaken. Composed by a skilled wordsmith, that wonderful opus encourages visitors on an introspective trip, softly unraveling the veiled truths and profound influence resonating within the very material of each and every word. Within the emotional depths of this poignant review, we shall embark upon a heartfelt exploration of the book is primary themes, dissect their charming publishing model, and fail to the effective resonance it evokes deep within the recesses of readers hearts.

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