Scikit-Learn Cookbook

Trent Hauck

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

About This Book

- Learn how to handle a variety of tasks with Scikit-Learn with interesting recipes that show you how the library really works
- Use Scikit-Learn to simplify the programming side data so you can focus on thinking
- Discover how to apply algorithms in a variety of situations

Who This Book Is For

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.

What You Will Learn

- Address algorithms of various levels of complexity and learn how to analyze data at the same time
- Handle common data problems such as feature extraction and missing data
- Understand how to evaluate your models against themselves and any other model
- Discover just enough math needed to learn how to think about the connections between various algorithms
- Customize the machine learning algorithm to fit your problem, and learn how to modify it when the situation calls for it
- Incorporate other packages from the Python ecosystem to munge and visualize your dataset

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. Its consistent API and plethora of features help solve any machine learning problem it comes across.

The book 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.

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From reader reviews:

Tom Moore:

Have you spare time for any day? What do you do when you have far more or little spare time? Yeah, you can choose the suitable activity with regard to spend your time. Any person spent all their spare time to take a stroll, shopping, or went to the particular Mall. How about open or even read a book entitled Scikit-Learn Cookbook? Maybe it is to be best activity for you. You understand beside you can spend your time using your favorite's book, you can more intelligent than before. Do you agree with the opinion or you have different opinion?

Manuel Rose:

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John Dame:

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