Mastering Machine Learning with scikit-learn

Gavin Hackeling

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Apply effective learning algorithms to real-world problems using scikit-learn

About This Book

- Design and troubleshoot machine learning systems for common tasks including regression, classification, and clustering
- Acquaint yourself with popular machine learning algorithms, including decision trees, logistic regression, and support vector machines
- 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 software developer who wants to learn how machine learning models work and how to apply them effectively, this book is for you. Familiarity with machine learning fundamentals and Python will be helpful, but is not essential.

What You Will Learn

- Review fundamental concepts including supervised and unsupervised experiences, common tasks, and performance metrics
- Predict the values of continuous variables using linear regression
- Create representations of documents and images that can be used in machine learning models
- Categorize documents and text messages using logistic regression and support vector machines
- Classify images by their subjects
- Discover hidden structures in data using clustering and visualize complex data using decomposition
- Evaluate the performance of machine learning systems in common tasks
- Diagnose and redress problems with models due to bias and variance

In Detail

This book examines machine learning models including logistic regression, decision trees, and support vector machines, and applies them to common problems such as categorizing documents and classifying images. It begins with the fundamentals of machine learning, introducing you to the supervised-unsupervised spectrum, the uses of training and test data, and evaluating models. You will learn how to use generalized linear models in regression problems, as well as solve problems with text and categorical features.

You will be acquainted with the use of logistic regression, regularization, and the various loss functions that are used by generalized linear models. The book will also walk you through an example project that prompts you to label the most uncertain training examples. You will also use an unsupervised Hidden Markov Model to predict stock prices.

By the end of the book, you will be an expert in scikit-learn and will be well versed in machine learning

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