Python Machine Learning Cookbook

Prateek Joshi

[Click here](#) if your download doesn"t start automatically

Python Machine Learning Cookbook

Prateek Joshi

Python Machine Learning Cookbook Prateek Joshi

Key Features

- Understand which algorithms to use in a given context with the help of this exciting recipe-based guide
- Learn about perceptrons and see how they are used to build neural networks
- Stuck while making sense of images, text, speech, and real estate? This guide will come to your rescue, showing you how to perform machine learning for each one of these using various techniques

Book Description

Machine learning is becoming increasingly pervasive in the modern data-driven world. It is used extensively across many fields such as search engines, robotics, self-driving cars, and more.

With this book, you will learn how to perform various machine learning tasks in different environments. We'll start by exploring a range of real-life scenarios where machine learning can be used, and look at various building blocks. Throughout the book, you'll use a wide variety of machine learning algorithms to solve real-world problems and use Python to implement these algorithms.

You'll discover how to deal with various types of data and explore the differences between machine learning paradigms such as supervised and unsupervised learning. We also cover a range of regression techniques, classification algorithms, predictive modeling, data visualization techniques, recommendation engines, and more with the help of real-world examples.

What you will learn

- Explore classification algorithms and apply them to the income bracket estimation problem
- Use predictive modeling and apply it to real-world problems
- Understand how to perform market segmentation using unsupervised learning
- Explore data visualization techniques to interact with your data in diverse ways
- Find out how to build a recommendation engine
- Understand how to interact with text data and build models to analyze it
- Work with speech data and recognize spoken words using Hidden Markov Models
- Analyze stock market data using Conditional Random Fields
- Work with image data and build systems for image recognition and biometric face recognition
- Grasp how to use deep neural networks to build an optical character recognition system

About the Author

Prateek Joshi is an Artificial Intelligence researcher and a published author. He has over eight years of experience in this field with a primary focus on content-based analysis and deep learning. He has written two books on Computer Vision and Machine Learning. His work in this field has resulted in multiple patents, tech demos, and research papers at major IEEE conferences.

People from all over the world visit his blog, and he has received more than a million page views from over 200 countries. He has been featured as a guest author in prominent tech magazines. He enjoys blogging

about topics, such as Artificial Intelligence, Python programming, abstract mathematics, and cryptography. You can visit his blog at www.prateekvjoshi.com.

He has won many hackathons utilizing a wide variety of technologies. He is an avid coder who is passionate about building game-changing products. He graduated from University of Southern California, and he has worked at companies such as Nvidia, Microsoft Research, Qualcomm, and a couple of early stage start-ups in Silicon Valley. You can learn more about him on his personal website at www.prateekj.com.

Table of Contents

1. The Realm of Supervised Learning
2. Constructing a Classifier
3. Predictive Modeling
4. Clustering with Unsupervised Learning
5. Building Recommendation Engines
6. Analyzing Text Data
7. Speech Recognition
8. Dissecting Time Series and Sequential Data
9. Image Content Analysis
10. Biometric Face Recognition
11. Deep Neural Networks
12. Visualizing Data

Download and Read Free Online Python Machine Learning Cookbook Prateek Joshi

From reader reviews:

Lewis Wood:

Why don't make it to be your habit? Right now, try to ready your time to do the important take action, like looking for your favorite reserve and reading a publication. Beside you can solve your short lived problem; you can add your knowledge by the publication entitled Python Machine Learning Cookbook. Try to the actual book Python Machine Learning Cookbook as your close friend. It means that it can to become your friend when you truly feel alone and beside associated with course make you smarter than before. Yeah, it is very fortuned in your case. The book makes you much more confidence because you can know every little thing by the book. So , let us make new experience along with knowledge with this book.

Wilfred Walker:

The book Python Machine Learning Cookbook gives you the sense of being enjoy for your spare time. You can use to make your capable much more increase. Book can to get your best friend when you getting strain or having big problem together with your subject. If you can make studying a book Python Machine Learning Cookbook for being your habit, you can get far more advantages, like add your own capable, increase your knowledge about a few or all subjects. You may know everything if you like start and read a reserve Python Machine Learning Cookbook. Kinds of book are a lot of. It means that, science publication or encyclopedia or some others. So , how do you think about this e-book?

Ilene Bixler:

Playing with family in a park, coming to see the coastal world or hanging out with buddies is thing that usually you may have done when you have spare time, in that case why you don't try point that really opposite from that. One particular activity that make you not experience tired but still relaxing, trilling like on roller coaster you already been ride on and with addition associated with. Even you love Python Machine Learning Cookbook, it is possible to enjoy both. It is good combination right, you still desire to miss it? What kind of hangout type is it? Oh come on its mind hangout fellas. What? Still don't get it, oh come on its known as reading friends.

James Rohrbach:

Don't be worry for anyone who is afraid that this book will filled the space in your house, you could have it in e-book way, more simple and reachable. This kind of Python Machine Learning Cookbook can give you a lot of buddies because by you looking at this one book you have point that they don't and make anyone more like an interesting person. That book can be one of a step for you to get success. This publication offer you information that probably your friend doesn't recognize, by knowing more than some other make you to be great persons. So , why hesitate? Let me have Python Machine Learning Cookbook.

Download and Read Online Python Machine Learning Cookbook Prateek Joshi #E8LJ5P0RYKN

Read Python Machine Learning Cookbook by Prateek Joshi for online ebook

Python Machine Learning Cookbook by Prateek Joshi Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Python Machine Learning Cookbook by Prateek Joshi books to read online.

Online Python Machine Learning Cookbook by Prateek Joshi ebook PDF download

Python Machine Learning Cookbook by Prateek Joshi Doc

Python Machine Learning Cookbook by Prateek Joshi Mobipocket

Python Machine Learning Cookbook by Prateek Joshi EPub