



C++ Machine Learning

Phil Culliton

Download now

Read Online 

C++ Machine Learning Phil Culliton

Key Features

- Get introduced to the concepts of Machine Learning and see how you can implement them in C++, and build efficient data models for training data using popular libraries such as mlpack and Shark
- A detailed guide packed with real-life examples to help you build a solid understanding of Machine Learning.

Book Description

Machine Learning tasks are CPU time-consuming. C++ outperforms any other programming language by allowing access to programming constructs to optimize CPU-based number crunching, precision, and memory management normally abstracted away in higher-level languages.

This book aims to address the challenges associated with C++ machine learning by introducing you to several useful libraries (mlpack, Shogun, and so on); you'll produce a library of your own code along the way that should make common tasks more straightforward.

We begin with a review of the basic concepts you will need to know or brush up on before going further, including math and an intro to the C++ style we'll be using throughout the book. We then deal with the fundamentals of ML—how to handle input, the basic algorithms, and sample cases where the basic algorithms succeed or fail. This is followed by more advanced topics such as complex algorithms, regularization, optimization, and visualizing and understanding data, referring back to earlier work consistently so that you can see the mountains move. We'll then touch upon topics of current interest: computer vision (including sections on CUDA and "deep" learning), natural language processing, and handling very large datasets.

The journey ends with a coda: we go back through the original sample cases, applying what we've learned along the way to rectify the issues we ran into initially.

What you will learn

- Model relationships in your data using supervised learning
- Uncover insights using clustering and t-SNE
- Use ensemble and stack to create more powerful models
- Use cuda-convnet and deep learning to solve image recognition problems
- Build an end-to-end pipeline that turns what you learn into practical, ready-to-use software
- Solve big data problems using Hadoop and Google's MR4C

About the Author

Phil Culliton has been architecting and building machine learning products since before the dawn of time, before carnivorous whales crawled from the oceans and evolved into Visual Studio and its C compiler, before Python was anything more than a snake to be terrified of. Happily, coding replenishes him like some infernal machine, so, despite being awfully close to 40, building applications still makes him feel like an 18-year-old cracking open Knuth for the first time: excited, confused, and slightly gassy. He lives with his wife and kids in a pleasant town in upstate New York.

 [Download C++ Machine Learning ...pdf](#)

 [Read Online C++ Machine Learning ...pdf](#)

C++ Machine Learning

Phil Culliton

C++ Machine Learning Phil Culliton

Key Features

- Get introduced to the concepts of Machine Learning and see how you can implement them in C++, and build efficient data models for training data using popular libraries such as mlpack and Shark
- A detailed guide packed with real-life examples to help you build a solid understanding of Machine Learning.

Book Description

Machine Learning tasks are CPU time-consuming. C++ outperforms any other programming language by allowing access to programming constructs to optimize CPU-based number crunching, precision, and memory management normally abstracted away in higher-level languages.

This book aims to address the challenges associated with C++ machine learning by introducing you to several useful libraries (mlpack, Shogun, and so on); you'll produce a library of your own code along the way that should make common tasks more straightforward.

We begin with a review of the basic concepts you will need to know or brush up on before going further, including math and an intro to the C++ style we'll be using throughout the book. We then deal with the fundamentals of ML—how to handle input, the basic algorithms, and sample cases where the basic algorithms succeed or fail. This is followed by more advanced topics such as complex algorithms, regularization, optimization, and visualizing and understanding data, referring back to earlier work consistently so that you can see the mountains move. We'll then touch upon topics of current interest: computer vision (including sections on CUDA and "deep" learning), natural language processing, and handling very large datasets.

The journey ends with a coda: we go back through the original sample cases, applying what we've learned along the way to rectify the issues we ran into initially.

What you will learn

- Model relationships in your data using supervised learning
- Uncover insights using clustering and t-SNE
- Use ensemble and stack to create more powerful models
- Use cuda-convnet and deep learning to solve image recognition problems
- Build an end-to-end pipeline that turns what you learn into practical, ready-to-use software
- Solve big data problems using Hadoop and Google's MR4C

About the Author

Phil Culliton has been architecting and building machine learning products since before the dawn of time, before carnivorous whales crawled from the oceans and evolved into Visual Studio and its C compiler, before Python was anything more than a snake to be terrified of. Happily, coding replenishes him like some infernal machine, so, despite being awfully close to 40, building applications still makes him feel like an 18-

year-old cracking open Knuth for the first time: excited, confused, and slightly gassy. He lives with his wife and kids in a pleasant town in upstate New York.

C++ Machine Learning Phil Culliton Bibliography

 [Download C++ Machine Learning ...pdf](#)

 [Read Online C++ Machine Learning ...pdf](#)

Download and Read Free Online C++ Machine Learning Phil Culliton

Editorial Review

Users Review

From reader reviews:

Sharon Self:

Reading a publication tends to be new life style in this particular era globalization. With reading you can get a lot of information that will give you benefit in your life. Along with book everyone in this world may share their idea. Publications can also inspire a lot of people. Plenty of author can inspire their very own reader with their story or even their experience. Not only the storyline that share in the guides. But also they write about advantage about something that you need case in point. How to get the good score toefl, or how to teach your young ones, there are many kinds of book which exist now. The authors in this world always try to improve their skill in writing, they also doing some investigation before they write to the book. One of them is this C++ Machine Learning.

Ryan Donahue:

You could spend your free time to see this book this reserve. This C++ Machine Learning is simple to bring you can read it in the area, in the beach, train along with soon. If you did not get much space to bring often the printed book, you can buy often the e-book. It is make you easier to read it. You can save often the book in your smart phone. Therefore there are a lot of benefits that you will get when you buy this book.

Elizabeth Brown:

Many people spending their period by playing outside along with friends, fun activity using family or just watching TV all day long. You can have new activity to shell out your whole day by reading through a book. Ugh, ya think reading a book can definitely hard because you have to accept the book everywhere? It ok you can have the e-book, getting everywhere you want in your Cell phone. Like C++ Machine Learning which is getting the e-book version. So , try out this book? Let's view.

Allen Green:

That reserve can make you to feel relax. This particular book C++ Machine Learning was colorful and of course has pictures around. As we know that book C++ Machine Learning has many kinds or genre. Start from kids until youngsters. For example Naruto or Investigation company Conan you can read and believe that you are the character on there. So , not at all of book usually are make you bored, any it offers you feel happy, fun and unwind. Try to choose the best book for you and try to like reading this.

**Download and Read Online C++ Machine Learning Phil Culliton
#RZHLEB6A3FV**

Read C++ Machine Learning Phil Culliton for online ebook

C++ Machine Learning Phil Culliton 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 C++ Machine Learning Phil Culliton books to read online.

Online C++ Machine Learning Phil Culliton ebook PDF download

C++ Machine Learning Phil Culliton Doc

C++ Machine Learning Phil Culliton MobiPocket

C++ Machine Learning Phil Culliton EPub