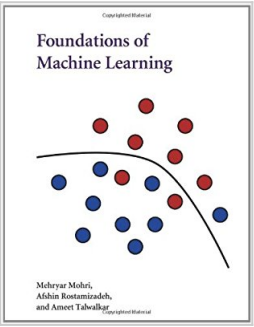

Foundations of Machine Learning (Adaptive Computation and Machine Learning series)

By Mehryar Mohri, Afshin Rostamizadeh, Ameet Talwalkar

Download now

Read Online

Foundations of Machine Learning (Adaptive Computation and Machine Learning series) By Mehryar Mohri, Afshin Rostamizadeh, Ameet Talwalkar

This graduate-level textbook introduces fundamental concepts and methods in machine learning. It describes several important modern algorithms, provides the theoretical underpinnings of these algorithms, and illustrates key aspects for their application. The authors aim to present novel theoretical tools and concepts while giving concise proofs even for relatively advanced topics. *Foundations of Machine Learning* fills the need for a general textbook that also offers theoretical details and an emphasis on proofs. Certain topics that are often treated with insufficient attention are discussed in more detail here; for example, entire chapters are devoted to regression, multi-class classification, and ranking. The first three chapters lay the theoretical foundation for what follows, but each remaining chapter is mostly self-contained. The appendix offers a concise probability review, a short introduction to convex optimization, tools for concentration bounds, and several basic properties of matrices and norms used in the book.

The book is intended for graduate students and researchers in machine learning, statistics, and related areas; it can be used either as a textbook or as a reference text for a research seminar.

Download Foundations of Machine Learning (Adaptive Computat ...pdf

Read Online Foundations of Machine Learning (Adaptive Comput ...pdf

Foundations of Machine Learning (Adaptive Computation and Machine Learning series)

By Mehryar Mohri, Afshin Rostamizadeh, Ameet Talwalkar

Foundations of Machine Learning (Adaptive Computation and Machine Learning series) By Mehryar Mohri, Afshin Rostamizadeh, Ameet Talwalkar

This graduate-level textbook introduces fundamental concepts and methods in machine learning. It describes several important modern algorithms, provides the theoretical underpinnings of these algorithms, and illustrates key aspects for their application. The authors aim to present novel theoretical tools and concepts while giving concise proofs even for relatively advanced topics. *Foundations of Machine Learning* fills the need for a general textbook that also offers theoretical details and an emphasis on proofs. Certain topics that are often treated with insufficient attention are discussed in more detail here; for example, entire chapters are devoted to regression, multi-class classification, and ranking. The first three chapters lay the theoretical foundation for what follows, but each remaining chapter is mostly self-contained. The appendix offers a concise probability review, a short introduction to convex optimization, tools for concentration bounds, and several basic properties of matrices and norms used in the book.

The book is intended for graduate students and researchers in machine learning, statistics, and related areas; it can be used either as a textbook or as a reference text for a research seminar.

Foundations of Machine Learning (Adaptive Computation and Machine Learning series) By Mehryar Mohri, Afshin Rostamizadeh, Ameet Talwalkar Bibliography

- Sales Rank: #229189 in Books
- Brand: Brand: The MIT Press
- Published on: 2012-08-17
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x .81" w x 7.00" l, 2.42 pounds
- Binding: Hardcover
- 432 pages

Download Foundations of Machine Learning (Adaptive Computat ...pdf

Read Online Foundations of Machine Learning (Adaptive Comput ...pdf

Download and Read Free Online Foundations of Machine Learning (Adaptive Computation and Machine Learning series) By Mehryar Mohri, Afshin Rostamizadeh, Ameet Talwalkar

Editorial Review

Review

A solid, comprehensive, and self-contained book providing a uniform treatment of a very broad collection of machine learning algorithms and problems. *Foundations of Machine Learning* is an essential reference book for corporate and academic researchers, engineers, and students.

(**Corinna Cortes**, Head of Google Research, NY)

Finally, a book that is both broad enough to cover many algorithmic topics of machine learning and mathematically deep enough to introduce the required theory for a graduate level course. *Foundations of Machine Learning* is a great achievement and a significant contribution to the machine learning community.

(**Yishay Mansour**, School of Computer Science, Tel Aviv University)

In my opinion, the content of the book is outstanding in terms of clarity of discourse and the variety of well-selected examples and exercises. The enlightening comments provided by the author at the end of each chapter and the suggestions for further reading are also important features of the book. The concepts and methods are presented in a very clear and accessible way and the illustrative examples contribute substantially to facilitating the understanding of the overall work.

(*Computing Reviews*)

About the Author
Mehryar Mohri is Professor of Computer Science at New York University's Courant Institute of Mathematical Sciences and a Research Consultant at Google Research.

Afshin Rostamizadeh is a Research Scientist at Google Research.

Ameet Talwalkar is a National Science Foundation Postdoctoral Fellow in the Department of Electrical Engineering and Computer Science at the University of California, Berkeley.

Users Review

From reader reviews:

Nancy Hartsell:

Do you have favorite book? When you have, what is your favorite's book? Reserve is very important thing for us to be aware of everything in the world. Each guide has different aim or maybe goal; it means that publication has different type. Some people experience enjoy to spend their time for you to read a book. They may be reading whatever they have because their hobby is reading a book. Think about the person who don't like looking at a book? Sometime, man or woman feel need book when they found difficult problem as well as exercise. Well, probably you should have this Foundations of Machine Learning (Adaptive

Computation and Machine Learning series).

Travis Pope:

What do you about book? It is not important along with you? Or just adding material if you want something to explain what you problem? How about your free time? Or are you busy man? If you don't have spare time to do others business, it is give you a sense of feeling bored faster. And you have spare time? What did you do? Everyone has many questions above. They have to answer that question because just their can do that. It said that about guide. Book is familiar in each person. Yes, it is proper. Because start from on guardería until university need this Foundations of Machine Learning (Adaptive Computation and Machine Learning series) to read.

Heather Killen:

Reading can called mind hangout, why? Because when you find yourself reading a book specifically book entitled Foundations of Machine Learning (Adaptive Computation and Machine Learning series) your mind will drift away trough every dimension, wandering in every aspect that maybe mysterious for but surely might be your mind friends. Imaging each word written in a reserve then become one type conclusion and explanation which maybe you never get previous to. The Foundations of Machine Learning (Adaptive Computation and Machine Learning series) giving you one more experience more than blown away your head but also giving you useful data for your better life in this era. So now let us teach you the relaxing pattern is your body and mind are going to be pleased when you are finished studying it, like winning a game. Do you want to try this extraordinary wasting spare time activity?

Bernard Taylor:

Do you like reading a publication? Confuse to looking for your favorite book? Or your book ended up being rare? Why so many question for the book? But almost any people feel that they enjoy to get reading. Some people likes studying, not only science book but novel and Foundations of Machine Learning (Adaptive Computation and Machine Learning series) or perhaps others sources were given understanding for you. After you know how the truly amazing a book, you feel want to read more and more. Science guide was created for teacher or maybe students especially. Those books are helping them to put their knowledge. In additional case, beside science reserve, any other book likes Foundations of Machine Learning (Adaptive Computation and Machine Learning series) to make your spare time much more colorful. Many types of book like here.

Download and Read Online Foundations of Machine Learning (Adaptive Computation and Machine Learning series) By Mehryar Mohri, Afshin Rostamizadeh, Ameet Talwalkar #QJICNW27P0A

Read Foundations of Machine Learning (Adaptive Computation and Machine Learning series) By Mehryar Mohri, Afshin Rostamizadeh, Ameet Talwalkar for online ebook

Foundations of Machine Learning (Adaptive Computation and Machine Learning series) By Mehryar Mohri, Afshin Rostamizadeh, Ameet Talwalkar 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 Foundations of Machine Learning (Adaptive Computation and Machine Learning series) By Mehryar Mohri, Afshin Rostamizadeh, Ameet Talwalkar books to read online.

Online Foundations of Machine Learning (Adaptive Computation and Machine Learning series) By Mehryar Mohri, Afshin Rostamizadeh, Ameet Talwalkar ebook PDF download

Foundations of Machine Learning (Adaptive Computation and Machine Learning series) By Mehryar Mohri, Afshin Rostamizadeh, Ameet Talwalkar Doc

Foundations of Machine Learning (Adaptive Computation and Machine Learning series) By Mehryar Mohri, Afshin Rostamizadeh, Ameet Talwalkar Mobipocket

Foundations of Machine Learning (Adaptive Computation and Machine Learning series) By Mehryar Mohri, Afshin Rostamizadeh, Ameet Talwalkar EPub

QJICNW27P0A: Foundations of Machine Learning (Adaptive Computation and Machine Learning series) By Mehryar Mohri, Afshin Rostamizadeh, Ameet Talwalkar