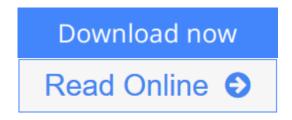# Recommender Systems: The Textbook

By Charu C. Aggarwal

Recommender Systems: The Textbook By Charu C. Aggarwal

This book comprehensively covers the topic of recommender systems, which provide personalized recommendations of products or services to users based on their previous searches or purchases. Recommender system methods have been adapted to diverse applications including query log mining, social networking, news recommendations, and computational advertising. This book synthesizes both fundamental and advanced topics of a research area that has now reached maturity. The chapters of this book are organized into three categories:

Algorithms and evaluation: These chapters discuss the fundamental algorithms in recommender systems, including collaborative filtering methods, content-based methods, knowledge-based methods, ensemble-based methods, and evaluation.

Recommendations in specific domains and contexts: the context of a recommendation can be viewed as important side information that affects the recommendation goals. Different types of context such as temporal data, spatial data, social data, tagging data, and trustworthiness are explored.

Advanced topics and applications: Various robustness aspects of recommender systems, such as shilling systems, attack models, and their defenses are discussed.

In addition, recent topics, such as learning to rank, multi-armed bandits, group

systems, multi-criteria systems, and active learning systems, are introduced together with applications.

Although this book primarily serves as a textbook, it will also appeal to industrial practitioners and researchers due to its focus on applications and references. Numerous examples and exercises have been provided, and a solution manual is available for instructors.

Recommender Systems: The Textbook

By Charu C. Aggarwal

Recommender Systems: The Textbook By Charu C. Aggarwal

This book comprehensively covers the topic of recommender systems, which provide personalized recommendations of products or services to users based on their previous searches or purchases. Recommender system methods have been adapted to diverse applications including query log mining, social networking, news recommendations, and computational advertising. This book synthesizes both fundamental and advanced topics of a research area that has now reached maturity. The chapters of this book are organized into three categories:

Algorithms and evaluation: These chapters discuss the fundamental algorithms in recommender systems, including collaborative filtering methods, content-based methods, knowledge-based methods, ensemble-based methods, and evaluation.

Recommendations in specific domains and contexts: the context of a recommendation can be viewed as important side information that affects the recommendation goals. Different types of context such as temporal data, spatial data, social data, tagging data, and trustworthiness are explored.

Advanced topics and applications: Various robustness aspects of recommender systems, such as shilling systems, attack models, and their defenses are discussed.

In addition, recent topics, such as learning to rank, multi-armed bandits, group systems, multi-criteria systems, and active learning systems, are introduced together with applications.

Although this book primarily serves as a textbook, it will also appeal to industrial practitioners and researchers due to its focus on applications and references. Numerous examples and exercises have been provided, and a solution manual is available for instructors.

Recommender Systems: The Textbook By Charu C. Aggarwal Bibliography

- Rank: #277502 in eBooks
- Published on: 2016-03-28
- Released on: 2016-03-28
- Format: Kindle eBook

Editorial Review

Review
"Charu Aggarwal, a well-known, reputable IBM researcher, has taken the time to distill the advances in the design of recommender systems since the advent of the web … . Extensive bibliographic notes at the end of each chapter and more than 700 references in the book bibliography make this monograph an excellent resource for both practitioners and researchers. … Without a doubt, this is an excellent addition to my bookshelf!" (Fernando Berzal, Computing Reviews, February, 2017)

From the Back Cover

This book comprehensively covers the topic of recommender systems, which provide personalized recommendations of products or services to users based on their previous searches or purchases. Recommender system methods have been adapted to diverse applications including query log mining, social networking, news recommendations, and computational advertising. This book synthesizes both fundamental and advanced topics of a research area that has now reached maturity. The chapters of this book are organized into three categories:

- Algorithms and evaluation: These chapters discuss the fundamental algorithms in recommender systems, including collaborative filtering methods, content-based methods, knowledge-based methods, ensemble-based methods, and evaluation.

- Recommendations in specific domains and contexts: the context of a recommendation can be viewed as important side information that affects the recommendation goals. Different types of context such as temporal data, spatial data, social data, tagging data, and trustworthiness are explored.

- Advanced topics and applications: Various robustness aspects of recommender systems, such as shilling systems, attack models, and their defenses are discussed.

In addition, recent topics, such as learning to rank, multi-armed bandits, group systems, multi-criteria systems, and active learning systems, are introduced together with applications.

Although this book primarily serves as a textbook, it will also appeal to industrial practitioners and researchers due to its focus on applications and references. Numerous examples and exercises have been provided, and a solution manual is available for instructors.
About the Author: Charu C. Aggarwal is a Distinguished Research Staff Member (DRSM) at the IBM T.J. Watson Research Center in Yorktown Heights, New York. He completed his B.S. from IIT Kanpur in 1993 and his Ph.D. from the Massachusetts Institute of Technology in 1996. He has published more than 300 papers in refereed conferences and journals, and has applied for or been granted more than 80 patents. He is author or editor of 15 books, including a textbook on data mining and a comprehensive book on outlier analysis. Because of the commercial value of his patents, he has thrice been designated a Master Inventor at IBM. He has received several internal and external awards, including the EDBT Test-of-Time Award (2014) and the IEEE ICDM Research Contributions Award (2015). He has also served as program or general chair of many major conferences in data mining. He is a fellow of the SIAM, ACM, and the IEEE, for

"contributions to knowledge discovery and data mining algorithms."

About the Author

Charu C. Aggarwal is a Distinguished Research Staff Member (DRSM) at the IBM T.J. Watson Research Center in Yorktown Heights, New York. He completed his B.S. from IIT Kanpur in 1993 and his Ph.D. from the Massachusetts Institute of Technology in 1996. He has published more than 300 papers in refereed conferences and journals, and has applied for or been granted more than 80 patents. He is author or editor of 15 books, including a textbook on data mining and a comprehensive book on outlier analysis. Because of the commercial value of his patents, he has thrice been designated a Master Inventor at IBM. He has received several internal and external awards, including the EDBT Test-of-Time Award (2014) and the IEEE ICDM Research Contributions Award (2015). He has also served as program or general chair of many major conferences in data mining. He is a fellow of the SIAM, ACM, and the IEEE, for "contributions to knowledge discovery and data mining algorithms."

Users Review

From reader reviews:

Hallie Cathey:

People live in this new day of lifestyle always attempt to and must have the time or they will get great deal of stress from both way of life and work. So , whenever we ask do people have extra time, we will say absolutely indeed. People is human not really a huge robot. Then we inquire again, what kind of activity are there when the spare time coming to an individual of course your answer will probably unlimited right. Then do you ever try this one, reading publications. It can be your alternative inside spending your spare time, often the book you have read will be Recommender Systems: The Textbook.

Frederick Rothman:

Your reading 6th sense will not betray an individual, why because this Recommender Systems: The Textbook e-book written by well-known writer who really knows well how to make book which might be understand by anyone who read the book. Written throughout good manner for you, still dripping wet every ideas and composing skill only for eliminate your own personal hunger then you still hesitation Recommender Systems: The Textbook as good book not just by the cover but also with the content. This is one e-book that can break don't assess book by its cover, so do you still needing yet another sixth sense to pick this kind of!? Oh come on your studying sixth sense already said so why you have to listening to one more sixth sense.

Roy Matsumoto:

Reading a book being new life style in this season; every people loves to learn a book. When you learn a book you can get a large amount of benefit. When you read textbooks, you can improve your knowledge, simply because book has a lot of information on it. The information that you will get depend on what forms of book that you have read. If you would like get information about your research, you can read education books, but if you act like you want to entertain yourself read a fiction books, this sort of us novel, comics, as

well as soon. The Recommender Systems: The Textbook will give you a new experience in examining a book.

John Silver:

Publication is one of source of knowledge. We can add our know-how from it. Not only for students but additionally native or citizen want book to know the change information of year to be able to year. As we know those textbooks have many advantages. Beside we all add our knowledge, may also bring us to around the world. From the book Recommender Systems: The Textbook we can acquire more advantage. Don't someone to be creative people? For being creative person must choose to read a book. Merely choose the best book that appropriate with your aim. Don't possibly be doubt to change your life with that book Recommender Systems: The Textbook. You can more desirable than now.

Download and Read Online Recommender Systems: The Textbook By Charu C. Aggarwal #J40WG5OTUFZ

Read Recommender Systems: The Textbook By Charu C. Aggarwal for online ebook

Recommender Systems: The Textbook By Charu C. Aggarwal 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 Recommender Systems: The Textbook By Charu C. Aggarwal books to read online.

Online Recommender Systems: The Textbook By Charu C. Aggarwal ebook PDF download

Recommender Systems: The Textbook By Charu C. Aggarwal Doc

Recommender Systems: The Textbook By Charu C. Aggarwal Mobipocket

Recommender Systems: The Textbook By Charu C. Aggarwal EPub

J40WG5OTUFZ: Recommender Systems: The Textbook By Charu C. Aggarwal