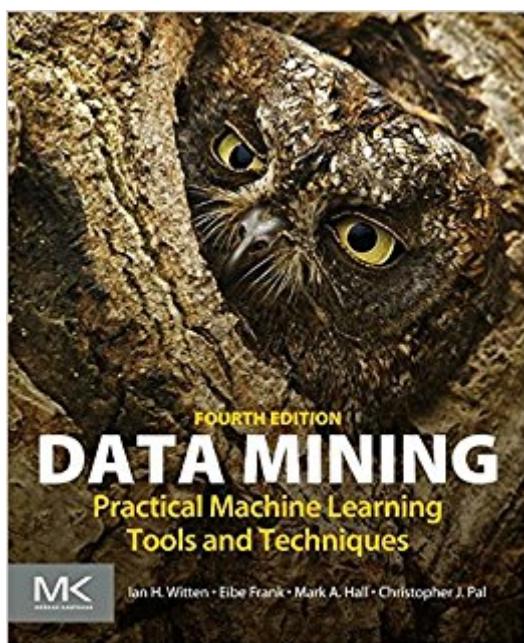The book was found

Data Mining: Practical Machine Learning Tools And Techniques (Morgan Kaufmann Series In Data Management Systems)

Synopsis

Data Mining: Practical Machine Learning Tools and Techniques, Fourth Edition, offers a thorough grounding in machine learning concepts, along with practical advice on applying these tools and techniques in real-world data mining situations. This highly anticipated fourth edition of the most acclaimed work on data mining and machine learning teaches readers everything they need to know to get going, from preparing inputs, interpreting outputs, evaluating results, to the algorithmic methods at the heart of successful data mining approaches. Extensive updates reflect the technical changes and modernizations that have taken place in the field since the last edition, including substantial new chapters on probabilistic methods and on deep learning. Accompanying the book is a new version of the popular WEKA machine learning software from the University of Waikato. Authors Witten, Frank, Hall, and Pal include today's techniques coupled with the methods at the leading edge of contemporary research. Please visit the book companion website atÂ http://www.cs.waikato.ac.nz/ml/weka/book.html It contains Powerpoint slides for Chapters 1-12. This is a very comprehensive teaching resource, with many PPT slides covering each chapter of the bookOnline Appendix on the Weka workbench; again a very comprehensive learning aid for the open source software that goes with the bookTable of contents, highlighting the many new sections in the 4th edition, along with reviews of the 1st edition, errata, etc.Provides a thorough grounding in machine learning concepts, as well as practical advice on applying the tools and techniques to data mining projectsPresents concrete tips and techniques for performance improvement that work by transforming the input or output in machine learning methodsIncludes a downloadable WEKA software toolkit, a comprehensive collection of machine learning algorithms for data mining tasks-in an easy-to-use interactive interfaceIncludes open-access online courses that introduce practical applications of the material in the book

Book Information

File Size: 26764 KB

Print Length: 655 pages

Publisher: Morgan Kaufmann; 4 edition (October 1, 2016)

Publication Date: October 1, 2016

Sold by:Â Digital Services LLC

Language: English

ASIN: B01MG31RL3

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #227,744 Paid in Kindle Store (See Top 100 Paid in Kindle Store)   #83 inÂ Kindle Store > Kindle eBooks > Computers & Technology > Computer Science > Software Engineering   #103 inÂ Kindle Store > Kindle eBooks > Computers & Technology > Computer Science > Artificial Intelligence   #165 inÂ Books > Politics & Social Sciences > Social Sciences > Library & Information Science > Library Management

Customer Reviews

I've read and reviewed the 1st, 2nd and now the 4th edition. The authors are genuine experts, at the front of their fields, and by adding new contributors have been able to both update existing topics as well as add authoritative treatments of new ones. I recommend this text to anyone seeking a serious introduction to data mining. The emphasis is practical rather than theoretical, but there are pointers to the theoretical literature for those wanting them. The practical emphasis serves those wanting such, and provides motivation and context for the approach. For those with the necessary mathematical, statistical and computing background there are certainly a plethora of more advanced treatments, but Witten et.al. may well be the best available introduction to the subject for almost everyone.

Review applies to the kindle edition. While the information in the book is good, the formatting of the kindle addition is terrible. No chapter indexes, so page numbers, percentage, no navigation. If the Kindle edition is updated, I'll update my review.

In comparison to the (excellent) 3rd edition, the major difference are two new chapters on probabilistic models and on deep learning.It is certainly good to have these more recent topics covered. However, the writing style of the two chapters is totally different: While the other chapters contain lots of examples and are didactically very well developed, the new chapters just present the theory in a take-it-or-leave-it style - lots of formulas, without any examples or any attempt to make the material more accessible for the average reader. This is really a pity.So I suggest to buy the third edition instead, and get the material for the new topics from elsewhere.

I used this book as a reference for a class I taught in statistical learning. The new edition has a few new chapters that are a bit more technical than the rest of the book. I am not sure if this book (or any other book out there) can by itself be used to learn about data mining. However, I still think this is a great book. The chapter on deep learning (a new chapter) is exceptionally clear and well written.

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Architecture and Design) See MIPS Run, Second Edition (The Morgan Kaufmann Series in Computer Architecture and Design)