



# Data Mining, Fourth Edition: Practical Machine Learning Tools and Techniques (Morgan Kaufmann Series in Data Management Systems)

By Ian H. Witten, Eibe Frank, Mark A. Hall, Christopher J. Pal

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**Data Mining, Fourth Edition: Practical Machine Learning Tools and Techniques (Morgan Kaufmann Series in Data Management Systems)** By Ian H. Witten, Eibe Frank, Mark A. Hall, Christopher J. Pal

*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 at  
<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 book
- Online Appendix on the Weka workbench; again a very comprehensive learning aid for the open source software that goes with the book
- Table 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 projects

- Presents concrete tips and techniques for performance improvement that work by transforming the input or output in machine learning methods
- Includes a downloadable WEKA software toolkit, a comprehensive collection of machine learning algorithms for data mining tasks-in an easy-to-use interactive interface
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## Editorial Review

From the Back Cover

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Key Features Include:

Accompanying open-access online courses that introduce practical application of the material in the book.  
About the Author

**Ian H. Witten** is a professor of computer science at the University of Waikato in New Zealand. He directs the New Zealand Digital Library research project. His research interests include information retrieval, machine learning, text compression, and programming by demonstration. He received an MA in Mathematics from Cambridge University, England; an MSc in Computer Science from the University of Calgary, Canada; and a PhD in Electrical Engineering from Essex University, England. He is a fellow of the ACM and of the Royal Society of New Zealand. He has published widely on digital libraries, machine learning, text compression, hypertext, speech synthesis and signal processing, and computer typography. He has written several books, the latest being *Managing Gigabytes* (1999) and *Data Mining* (2000), both from Morgan Kaufmann.

**Eibe Frank** lives in New Zealand with his Samoan spouse and two lovely boys, but originally hails from Germany, where he received his first degree in computer science from the University of Karlsruhe. He moved to New Zealand to pursue his Ph.D. in machine learning under the supervision of Ian H. Witten, and joined the Department of Computer Science at the University of Waikato as a lecturer on completion of his studies. He is now an associate professor at the same institution. As an early adopter of the Java programming language, he laid the groundwork for the Weka software described in this book. He has contributed a number of publications on machine learning and data mining to the literature and has refereed for many conferences and journals in these areas.>

Mark A. Hall holds a bachelor's degree in computing and mathematical sciences and a Ph.D. in computer science, both from the University of Waikato. Throughout his time at Waikato, as a student and lecturer in computer science and more recently as a software developer and data mining consultant for Pentaho, an open-source business intelligence software company, Mark has been a core contributor to the Weka software described in this book. He has published a number of articles on machine learning and data mining and has

refereed for conferences and journals in these areas. Users Review **From reader reviews:**

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