Chapter 1 : Chapter What's it all about? - Data Mining, 4th Edition [Book]

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.

Artificial Intelligence Table of contents Part I: Introduction to data mining 1. Concepts, instances, attributes 3. The basic methods 5. More advanced machine learning schemes 6. Trees and rules 7. Extending instance-based and linear models 8. Beyond supervised and unsupervised learning It is worthy of a fourth edition. 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 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 and Data Mining , 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. 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. 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.

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Book Description. 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.

Fourth Edition pdf file The conver gence of computing and com munica tion has produc ed a society that feed s on information. Yet mos t of the informat ion is in its raw form: If data is characterize d as reco rded facts, then information is the set of patterns, or expectations, that underlie the data. There is a huge amount of information locked up in databasesâ€"information that is potentially important but has not yet been discovered or articulated. Our mission is to bring it forth. Data mining is the extraction of implicit, previously unknown, and potentially useful information from data. The idea is to build computer programs that sift through databases automatically, seeking regularities or patterns. Strong patterns, if found, will likely generalize to make accurate predictions on future data. Of course, there will be problems. Many patterns will be banal and uninteresting. Others will be spurious, contingent on accidental coincidences in the particular dataset used. And real data is imperfect: Anything that is discovered will be inexact: Algorithms need to be robust enough to cope with imperfect data and to extract regularities that are inexact but useful. Machine learning provides the technical basis of data mining. It is used to extract information from the raw data in databasesâ€"information i. The process is one of abstraction: This book is about the tools and techniques of machine learning that are used in practical data mining for finding, and if possible describing, structural patterns in data. As with any burgeoning new technology that enjoys intense commercial atten tion, the use of machine learning is surrounded by a great deal of hype in the technicalâ€"and sometimes the popularâ€"press. Exaggerated reports appear of the secrets that can be uncovered by setting learning algorithms loose on oceans of data. But there is no magic in machine learning, no hidden power, no alchemy. Instead there is an identifiable body of simple and practical techniques that can often extract useful information from raw data. This book describes these techniques and shows how they work.

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