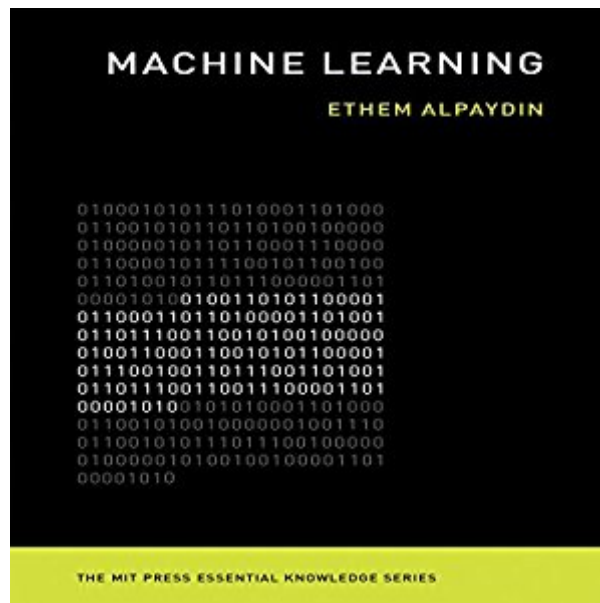The book was found

Machine Learning: The New AI: The MIT Press Essential Knowledge Series

Synopsis

Today, machine learning underlies a range of applications we use every day, from product recommendations to voice recognition - as well as some we don't yet use every day, including driverless cars. It is the basis of the new approach in computing where we do not write programs but collect data; the idea is to learn the algorithms for the tasks automatically from data. As computing devices grow more ubiquitous, a larger part of our lives and work is recorded digitally, and as "Big Data" has gotten bigger, the theory of machine learning - the foundation of efforts to process that data into knowledge - has also advanced. In this audiobook, machine learning expert Ethem Alpaydin offers a concise overview of the subject for the general listener, describing its evolution, explaining important learning algorithms, and presenting example applications. Alpaydin offers an account of how digital technology advanced from number-crunching mainframes to mobile devices, putting today's machine learning boom in context. He describes the basics of machine learning and some applications; the use of machine learning algorithms for pattern recognition; artificial neural networks inspired by the human brain; algorithms that learn associations between instances, with such applications as customer segmentation and learning recommendations; and reinforcement learning, when an autonomous agent learns act so as to maximize reward and minimize penalty. Alpaydin then considers some future directions for machine learning and the new field of "data science," and discusses the ethical and legal implications for data privacy and security.

Book Information

Audible Audio Edition

Listening Length: 4 hoursÃ Â andÃ Â 24 minutes

Program Type: Audiobook

Version: Unabridged

Publisher: Gildan Media, LLC

Audible.com Release Date: September 26, 2016

Whispersync for Voice: Ready

Language: English

ASIN: B01M1I55GE

Best Sellers Rank: #33 inÃ Â Books > Computers & Technology > Computer Science > AI & Machine Learning > Intelligence & Semantics #40 inÃ Â Books > Audible Audiobooks > Nonfiction > Computers #41 inÃ Â Books > Engineering & Transportation > Engineering > Reference > History

Customer Reviews

This book is an introductory overview of Ethem's detailed text on ML. The text itself has gotten mostly mixed or bad reviews due to a lot of math and algorithms notated without a lot of detailed explanations, however, this is a general reader intro and doesn't go into math, algos in detail, trees, Bayesian logic or even pseudocode, it is more an up to date overview of the field as it exists at this writing. Alpaydin's expensive text, btw, is also available in a very inexpensive Asian edition here on if you want to brave that difficult book without a lot of investment (Introduction To Machine Learning 3Rd Edition).The present volume is sortof a "ML for Dummies" only updated for the current craze with big data management. There is a lot of history and background that an experienced ML person will find too basic, but as a High School intro or general interested reader intro it is excellent. The chapters (only 7) begin with a history of computing in general, go into model fitting and stats explaining how big data has changed ML, pattern recognition specifically related to speech and facial recognition, neural nets and the brain as a model (without going into specific XOR or other examples that show, for example, how simple Python code can execute the basic steps of NN. There are Kindle volumes that do that very well: two of the best are:Ã Â Introduction to the Math of Neural NetworksÃ Â andÃ Â Code Your Own Neural Network: A step-by-step explanation. Along those lines, one of the best albeit expensive "try it yourself" volumes in NN is the wonderful:Ã Â Make Your Own Neural Network, truly a hands on volume that even beginners can master.The fifth chapter goes into clusters and argues that the old "AI" of expert systems which disappointed so many has now been salvaged by ML, Data Science and Big Data. The book concludes with some speculations on the future.There are literally hundreds of books and texts on ML, but many of them are too complex and expensive (like Ethem's actual text albeit the Asian economy edition helps), or out of date. This great little intro fills a gap between the too detailed and the out of date if you want a good intro without any math or programming to the general field, put in context, with more up to date overviews of the interaction between learning algos and big data, which is the direction AI has taken now. Highly recommended for the right audience, not for techies, swings the pendulum to the far other side of Alpaydin's actual text (although partially based on it) which has been criticized as too technical. This is far from that.TIP: Since this doesn't have math or code, ie no Latex or symbolic notation, it is ideal for a Kindle read, which is not true for a lot of the more technical texts-- just to save you a bit of investment.

This is an excellently written book about a relatively new concept utilizing Artificial Intelligence to program machines for the purpose of doing something that would be in the realm of a human

activity, actually introducing the concept of learning done on the part of a machine, how it is done, it's capabilities, limitations, challenges to mankind, machine learning

Although compact in size, this book provides a comprehensive and pleasantly deep and authoritative panorama of the current status of machine learning.

A brief, but useful, volume. It could have been a little more detailed, in my opinion. This is good for beginners.

This is the problem with the internet, I thought this was going to be a bigger book not some small pamphlet. I would not have spent the money on this item just because of the size alone.

I enjoyed the way the author makes Machine Learning accessible to a novice like me. After reading the book, I have a good understanding of the the models and methods that underpin machine learning. I also now understand the types of problems that Machine Learning can address and the types of problems that it can't. Most importantly I see how the field / discipline has emerged and the exciting possibilities of where it can emerge.

It's a great book to read before you dive into the details in another book

The books is well oriented and high level thus easy to read for

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