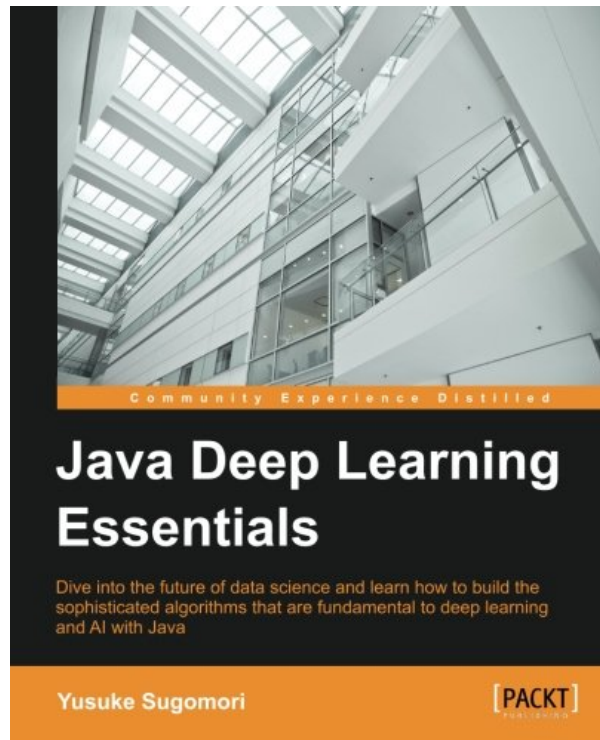
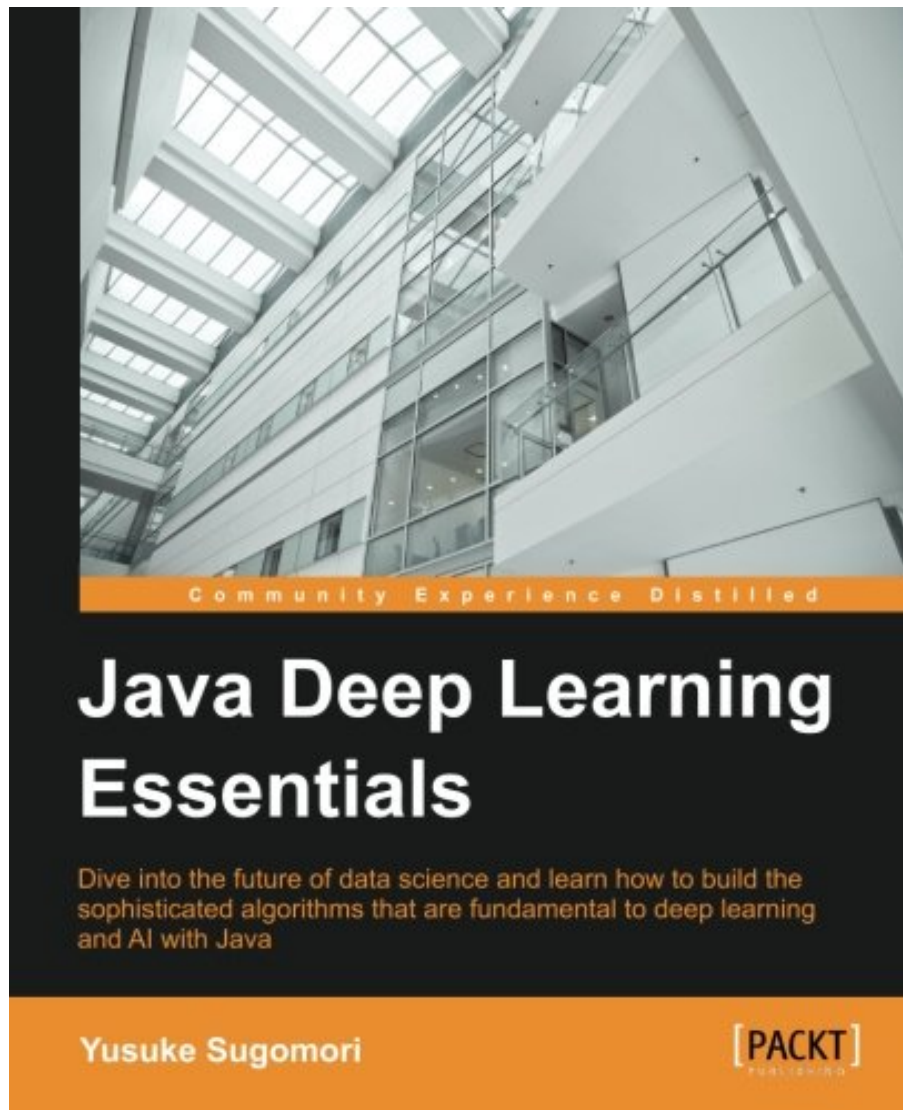


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About the Author

Yusuke Sugomori

Yusuke Sugomori is a creative technologist with a background in information engineering. When he was a graduate school student, he cofounded Gunosy with his colleagues, which uses machine learning and web-based data mining to determine individual users' respective interests and provides an optimized selection of daily news items based on those interests. This algorithm-based app has gained a lot of attention since its release and now has more than 10 million users. The company has been listed on the Tokyo Stock Exchange since April 28, 2015. In 2013, Sugomori joined Dentsu, the largest advertising company in Japan based on nonconsolidated gross profit in 2014, where he carried out a wide variety of digital advertising, smartphone app development, and big data analysis. He was also featured as one of eight "new generation" creators by the Japanese magazine Web Designing. In April 2016, he joined a medical start-up as cofounder and CTO.

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Dive into the future of data science and learn how to build the sophisticated algorithms that are fundamental to deep learning and AI with Java

About This Book

- Go beyond the theory and put Deep Learning into practice with Java
- Find out how to build a range of Deep Learning algorithms using a range of leading frameworks including DL4J, Theano and Caffe
- Whether you're a data scientist or Java developer, dive in and find out how to tackle Deep Learning

Who This Book Is For

This book is intended for data scientists and Java developers who want to dive into the exciting world of deep learning. It would also be good for machine learning users who intend to leverage deep learning in their projects, working within a big data environment.

What You Will Learn

- Get a practical deep dive into machine learning and deep learning algorithms
- Implement machine learning algorithms related to deep learning
- Explore neural networks using some of the most popular Deep Learning frameworks
- Dive into Deep Belief Nets and Stacked Denoising Autoencoders algorithms
- Discover more deep learning algorithms with Dropout and Convolutional Neural Networks
- Gain an insight into the deep learning library DL4J and its practical uses
- Get to know device strategies to use deep learning algorithms and libraries in the real world
- Explore deep learning further with Theano and Caffe

In Detail

AI and Deep Learning are transforming the way we understand software, making computers more intelligent than we could even imagine just a decade ago. Deep Learning algorithms are being used across a broad range of industries – as the fundamental driver of AI, being able to tackle Deep Learning is going to a vital and valuable skill not only within the tech world but also for the wider global economy that depends upon knowledge and insight for growth and success. It's something that's moving beyond the realm of data science – if you're a Java developer, this book gives you a great opportunity to expand your skillset.

Starting with an introduction to basic machine learning algorithms, to give you a solid foundation, Deep Learning with Java takes you further into this vital world of stunning predictive insights and remarkable machine intelligence. Once you've got to grips with the fundamental mathematical principles, you'll start exploring neural networks and identify how to tackle challenges in large networks using advanced algorithms. You will learn how to use the DL4J library and apply Deep Learning to a range of real-world use

cases. Featuring further guidance and insights to help you solve challenging problems in image processing, speech recognition, language modeling, this book will make you rethink what you can do with Java, showing you how to use it for truly cutting-edge predictive insights. As a bonus, you'll also be able to get to grips with Theano and Caffe, two of the most important tools in Deep Learning today.

By the end of the book, you'll be ready to tackle Deep Learning with Java. Wherever you've come from – whether you're a data scientist or Java developer – you will become a part of the Deep Learning revolution!

Style and approach

This is a step-by-step, practical tutorial that discusses key concepts. This book offers a hands-on approach to key algorithms to help you develop a greater understanding of deep learning. It is packed with implementations from scratch, with detailed explanation that make the concepts easy to understand and follow.

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About the Author

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Most helpful customer reviews

4 of 4 people found the following review helpful.

Quite Good -- Not Just for Java

By J. Catrambone

I'm quite pleased with this book, actually. I was a little reluctant initially, fearing that this would be nothing but a simple surface-level overview of how to put together a bunch of pre-existing libraries (ick). Instead, it actually goes into the mathematical derivations and underlying principles of the algorithms (!) and instructs the user on how to build systems from the ground up. I'll likely be using this a lot in the near and distant future as a reference when I have to implement these systems in other languages. The reason I'm not giving it four stars is that I felt it was a little on the thin-side at times. It could easily go into more depth on building computational graphs and doing backprop against them instead of the simple layer/weight setup. I'll go

through it again in the near future and may update my review.

1 of 1 people found the following review helpful.

It looks like a "draft"

By Piotr

It looks like a "draft", not a complete book. Only the first chapters (introductions) are worth reading) and anyway they are short without any useful information. The implementatiton chapters do not explain anything about deep learning but explain the api of a proprietary java libray.

6 of 7 people found the following review helpful.

Could definitely benefit from an experienced editor

By RBoyd

The text is pretty difficult to follow, not because of the technical nature of the material, but because the author uses some pretty esoteric meanings for words. The text reads like someone simply transcribed audio lectures. I'll probably be returning this book.

See all 5 customer reviews...

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