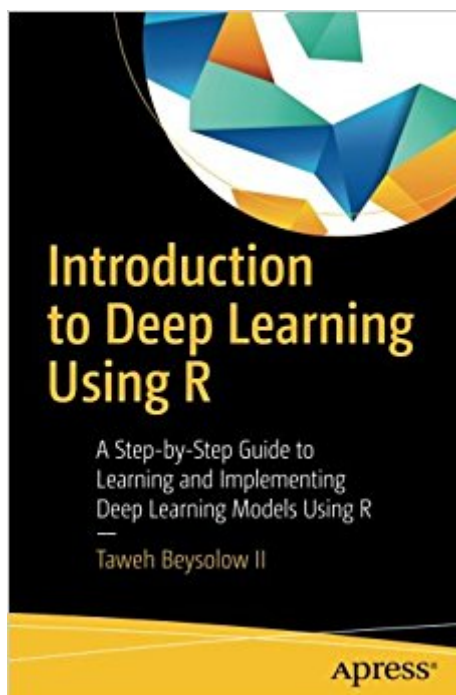




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Introduction To Deep Learning Using R: A Step-by-Step Guide To Learning And Implementing Deep Learning Models Using R



Synopsis

Understand deep learning, the nuances of its different models, and where these models can be applied. The abundance of data and demand for superior products/services have driven the development of advanced computer science techniques, among them image and speech recognition. Introduction to Deep Learning Using R provides a theoretical and practical understanding of the models that perform these tasks by building upon the fundamentals of data science through machine learning and deep learning. This step-by-step guide will help you understand the disciplines so that you can apply the methodology in a variety of contexts. All examples are taught in the R statistical language, allowing students and professionals to implement these techniques using open source tools.

What You'll Learn

- Understand the intuition and mathematics that power deep learning models
- Utilize various algorithms using the R programming language and its packages
- Use best practices for experimental design and variable selection
- Practice the methodology to approach and effectively solve problems as a data scientist
- Evaluate the effectiveness of algorithmic solutions and enhance their predictive power

Who This Book Is For

Students, researchers, and data scientists who are familiar with programming using R. This book also is also of use for those who wish to learn how to appropriately deploy these algorithms in applications where they would be most useful.

Book Information

Paperback: 227 pages

Publisher: Apress; 1st ed. edition (July 20, 2017)

Language: English

ISBN-10: 1484227336

ISBN-13: 978-1484227336

Product Dimensions: 6.1 x 0.6 x 9.2 inches

Shipping Weight: 14.9 ounces (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #485,949 in Books (See Top 100 in Books) #103 in [Books > Computers & Technology > Programming > Languages & Tools > Compilers](#) #155 in [Books > Textbooks > Computer Science > Artificial Intelligence](#) #181 in [Books > Textbooks > Computer Science > Object-Oriented Software Design](#)

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Taweh Beysolow II is a Machine Learning Scientist currently based in the United States with a passion for research and applying machine learning methods to solve problems. He has a Bachelor of Science degree in Economics from St. Johns University and a Master of Science in Applied Statistics from Fordham University. Currently, he is extremely passionate about all matters related to machine learning, data science, quantitative finance, and economics.

This book covers a lot of ground. The author lays out all the tools he will need at the start of the book - a review of all the relevant statistical concepts, a thorough explanation of machine learning, and introduction to neural networks - and uses them with care and precision to lay out a thorough grounding in Deep Learning. While it's intellectually pretty heavy-weight, I think Beysolow sells himself short when he suggests that the reader should have some decent familiarity with the R programming language and statistics. As someone who doesn't know R and whose statistics knowledge was pretty rusty, the methodical, I found that the step-by-step introduction of new concepts meant that there was plenty for me in this book (even if I'm sure some of the nuance was lost on me). An excellent introduction to one of the most important fields in computer science today.

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