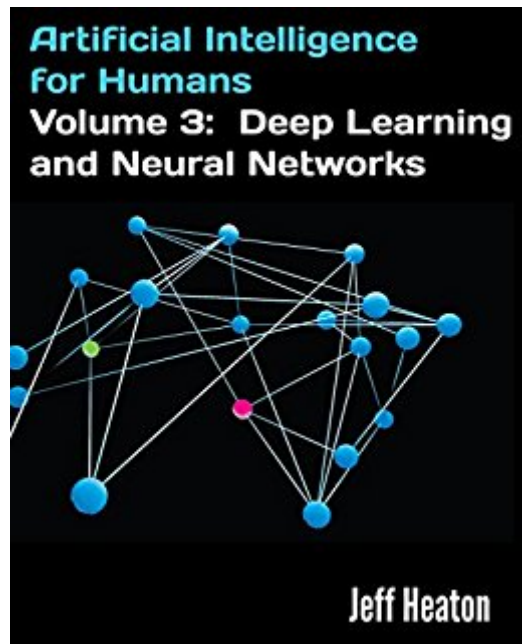


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# Artificial Intelligence For Humans, Volume 3: Deep Learning And Neural Networks



## Synopsis

Neural networks have been a mainstay of artificial intelligence since its earliest days. Now, exciting new technologies such as deep learning and convolution are taking neural networks in bold new directions. In this book, we will demonstrate the neural networks in a variety of real-world tasks such as image recognition and data science. We examine current neural network technologies, including ReLU activation, stochastic gradient descent, cross-entropy, regularization, dropout, and visualization.

## Book Information

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## Customer Reviews

The book describes few concepts. A beginner would expect to see a bigger picture rather than a seemingly random set of methods or models. A professional would look for detailed explanation of concepts. The book provides neither. Descriptions are shallow, formulas contain errors, pseudo code is often wrong. Some description would better be replaced with concise and clear formulas, some formulas require explanations. The book needs a proof editing. However, the bigger problem

is how the author presents the material. I'd recommend a much better book to start with: "Neural Networks and Deep Learning" by Michael Nielsen.

I ran through the book quickly (kindle) and it seems good although I expected much more mathematics involved (Integrals, derivatives, linear algebra). I hope that a new version or a new book will go more in depth with the actual problems...

The book is more like a quick compilation of a college student's note. Concepts are presented in a relatively isolated manner; connections between concepts are, for the large part, missing. Furthermore, if the materials presented are rather shallow like in this book, readers will expect to see a strong emphasis on, or hands on exercises of, practical applications. But this book doesn't seem to help much in that regard either, despite what the book claims. The book does give introduction to a bunch of models, which can be useful for a beginner. But at least this edition I wouldn't suggest any one to buy because of poor editing. For example, the pseudo code fragments listed in the book are often wrong, or different than what is described by the text. References to formulas, etc need some proof reading, too.

The book gives a brief description of the large number of types and techniques for applying neural networks, but never gives the reader any examples of their implementation and how effective they are at solving any of the classic problems. Instead the reader is fed trivia like the definitions of  $\text{sgn}(x)$ , mean, standard deviation, partial derivative or the amazing fact that the second derivative is the derivative of the first derivative. There is nothing like a tutorial anywhere in the book.

Very basic high school level introduction to deep learning. The math although elementary is also poor rendered (no LaTeX here) and sometimes wrong (starting with equation 1.1). On the bright side it mentions a wide range of topics in the field (to be studied elsewhere)

The author explained the algorithms/concepts poorly. When the author presents an algorithm, he simply puts some equations there, without giving any clue of how they are used and why they are needed. The readers have to figure out them by reading online tutorials. The book lacks of the intuition and the mathematical fundamentals.

Definitely worth its price for the content and the GitHub examples. The content is pretty minimalistic

in of itself and is insufficient to have a full understand of deep learning, but there are some really good pointers and simplified explanations to help you get there. I enjoyed the fact that each concept was presented seperatly which helped me get a better undestanding on how neural networks works and what is there underlying philosophie.

DO NOT buy this book. Its content quality is just above Scientific America article. Useless for professionals.

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