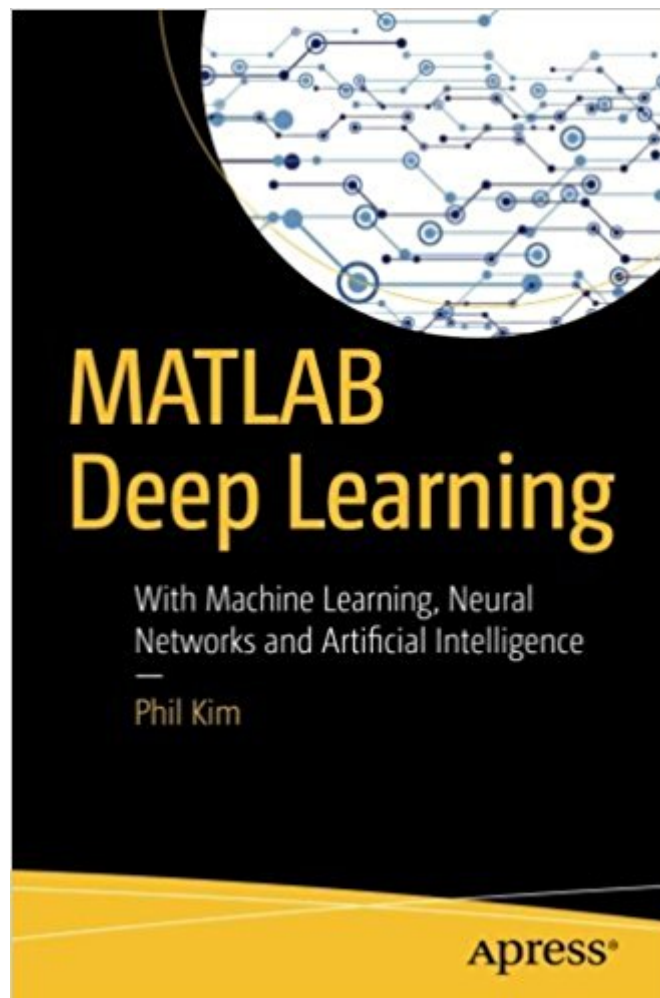




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# MATLAB Deep Learning: With Machine Learning, Neural Networks And Artificial Intelligence



## Synopsis

Get started with MATLAB for deep learning and AI with this in-depth primer. In this book, you start with machine learning fundamentals, then move on to neural networks, deep learning, and then convolutional neural networks. In a blend of fundamentals and applications, MATLAB Deep Learning employs MATLAB as the underlying programming language and tool for the examples and case studies in this book. With this book, you'll be able to tackle some of today's real world big data, smart bots, and other complex data problems. You'll see how deep learning is a complex and more intelligent aspect of machine learning for modern smart data analysis and usage.

**You'll Learn**

- Use MATLAB for deep learning
- Discover neural networks and multi-layer neural networks
- Work with convolution and pooling layers
- Build a MNIST example with these layers

**Who This Book Is For**

Those who want to learn deep learning using MATLAB. Some MATLAB experience may be useful.

## Book Information

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complex and more intelligent aspect of machine learning for modern smart data analysis and usage. You will: Use MATLAB for deep learning Discover neural networks and multi-layer neural networks Work with convolution and pooling layers Build a MNIST example with these layers

Phil Kim, PhD is an experienced MATLAB programmer and user. He also works with algorithms of large data sets drawn from AI, machine learning. He has worked at Korea Aerospace Research Institute as a Senior Researcher. There, his main task was to develop autonomous flight algorithm and onboard software for unmanned aerial vehicle. An on-screen keyboard program named 'Clicky' was developed by him during his period in PhD program and served as a bridge to bring the author currently to his current assignment as a Senior Research Officer at National Rehabilitation Research Institute of Korea.

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