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Machine Learning with TensorFlow MEAP (/meap-program)

Nishant Shukla

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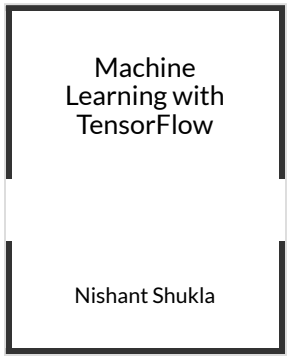

Look inside

(https://livebook.manning.com/#!/book/machine-learning-with-tensorflow/)

We're living in a big data world. Being able to make near-real-time decisions becomes increasingly crucial. To succeed, we need machine learning systems that can turn massive amounts of data into valuable insights. But when you're just starting out in the data science field, how do you get started creating machine learning applications? The answer is TensorFlow, a new open source machine learning library from Google that they use in their own successful products like Search, Maps, YouTube, Translate, and Photos. The TensorFlow library can take your high level designs and turn them into the low level mathematical operations required by machine learning algorithms.

"An excellent introduction to the concepts of TensorFlow and various fitting techniques."

~ Ken Fricklas

"Should be studied by every machine learning developer."

~ William Wheeler

"Excellent book for learning machine learning with Tensorflow."

~ Ursin Stauss

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PART 1: MY MACHINE LEARNING RIG

PART 2: CORE LEARNING ALGORITHMS

PART 3: THE NEURAL NETWORK PARADIGM

About the technology

Machine Learning with TensorFlow teaches you machine learning algorithms and how to implement solutions with TensorFlow. You'll start with an overview of machine learning concepts. Next, you'll learn the essentials you'll need to begin using TensorFlow before moving on to specific machine learning problems and solutions. With lots of diagrams, code examples, and exercises, this tutorial teaches you cutting-edge machine learning algorithms and techniques to solve them. Each chapter zooms into a prominent example of machine learning, such as classification, regression, anomaly detection, clustering, and neural networks. Cover them all to master the basics, or cater to your needs by skipping around. By the end of this book, you'll be able to solve classification, clustering, regression, and prediction problems in the real world.

What's inside

- Formulating machine learning frameworks for real-world problems
- Understanding machine learning problems
- Solving problems with TensorFlow
- Visualizing algorithms with TensorBoards
- Using well-studied neural network architectures
- Reusing provided code for your own applications

About the reader

This book is for programmers who have some experience with Python and linear algebra concepts like vectors and matrices. No experience with machine learning is necessary.

About the author

Nishant Shukla is a computer vision researcher at UCLA, focusing on machine learning techniques with robotics. He has been a developer for Microsoft, Facebook, and Foursquare, and a machine learning engineer for SpaceX, as well as the author of the *Haskell Data Analysis Cookbook*.