TensorFlow Machine Learning Cookbook

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Key Features

- Your quick guide to implementing TensorFlow in your day-to-day machine learning activities
- Learn advanced techniques that bring more accuracy and speed to machine learning with the help of this cookbook
- Upgrade yourself to the second generation of machine learning with this guide on TensorFlow

Book Description

TensorFlow is an open source software library for Machine Intelligence. The independent recipes in this book will teach you how to use TensorFlow for complex data computations and will help you gain more insights into your data than ever before. You'll work through recipes on training models, model evaluation, sentiment analysis, regression analysis, clustering analysis, artificial neural networks, and deep learning, each using Google's machine learning library TensorFlow.

We'll start with the fundamentals of the TensorFlow library and you will learn about variables, matrices, and various data sources. Moving ahead, you will get hands-on experience of Linear Regression techniques with TensorFlow. The next chapters cover important high-level concepts such as neural networks, CNN, RNN, and NLP through real-world examples in every recipe.

Once you are well versed with the TensorFlow ecosystem, the last chapter will teach you to take it to production.

What you will learn

- Become familiar with the basics of the TensorFlow machine learning library
- Get to know Linear Regression techniques with TensorFlow
- Learn SVM's with practical hands-on recipes
- Implement neural networks and improve predictions
- Apply NLP and sentiment analysis to your data
- Master CNN and RNN through real-world recipes
- Take TensorFlow into production

About the Author

Nick McClure is currently a senior data scientist at PayScale, Inc. in Seattle, WA. Prior, he has worked at Zillow and Caesar's Entertainment. He got his degrees in Applied Mathematics from The University of Montana and the College of Saint Benedict and Saint John's University.

He has a passion for learning and advocating for analytics, machine learning, and artificial intelligence. Nick occasionally puts his thoughts and musing on his blog, fromdata.org, or through his twitter account, @nfmcclure.

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Leslie Babcock:

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Homer Simon:

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