



Building Machine Learning Projects with TensorFlow

Rodolfo Bonnin

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Key Features

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Book Description

This book of projects highlights how TensorFlow can be used in different scenarios - this includes projects for training models, machine learning, deep learning, and working with various neural networks. Each project provides exciting and insightful exercises that will teach you how to use TensorFlow and show you how layers of data can be explored by working with Tensors. Simply pick a project that is in line with your environment and get stacks of information on how to implement TensorFlow in production.

What you will learn

- Load, interact, dissect, process, and save complex datasets
- Solve classification and regression problems using state of the art techniques
- Predict the outcome of a simple time series using Linear Regression modeling
- Use a Logistic Regression scheme to predict the future result of a time series
- Classify images using deep neural network schemes
- Tag a set of images and detect features using a deep neural network, including a Convolutional Neural Network (CNN) layer
- Resolve character recognition problems using the Recurrent Neural Network (RNN) model

About the Author

Rodolfo Bonnin is a systems engineer and PhD student at Universidad Tecnologica Nacional, Argentina. He also pursued parallel programming and image understanding postgraduate courses at Uni Stuttgart, Germany.

He has done research on high performance computing since 2005 and began studying and implementing convolutional neural networks in 2008, writing a CPU and GPU - supporting neural network feed forward stage. More recently he's been working in the field of fraud pattern detection with Neural Networks, and is currently working on signal classification using ML techniques.

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