Using Machine Learning in Trading and Finance
New York Institute of Finance, Google Cloud

Overview

Week 1

Week 2

Week 3

Week 4

Grades

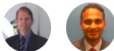Notes

Week 2

Using Machine Learning in Trading and Finance

Week 2

Discuss the topic here.

6 threads · Last post 2 months ago

[Go to forum]

Training neural networks with Tensorflow 2 and Keras

Learning Objectives

- Build a machine learning model using the TensorFlow 2 and Keras API
- Use Keras Sequential API to build a classification model
- Use Keras Functional API to build a Wide and Deep model

⌃ **Less**

Overview of Neural Networks and Introduction to Keras APIs

▶ **Video:** Overview 31 sec   [Resume]

▶ **Video:** Activation functions 8 min

▶ **Video:** Activation functions: Pitfalls to avoid in Backpropagation 5 min

▶ **Video:** Neural Networks with Keras Sequential API 7 min

▶ **Video:** Serving models in the cloud 3 min

▶ **Video:** Lab Intro : Keras Sequential API 21 sec

⊡ **Graded External Tool:** Lab: Introducing the Keras Sequential API 1h   Due Feb 22, 1:59 AM CST

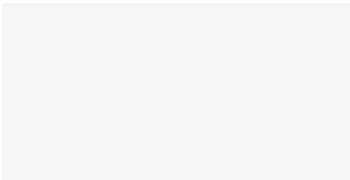▶ **Video:** Neural Networks with Keras Functional API 9 min

▶ **Video:** Regularization: The Basics 4 min

▶ **Video:** Regularization: L1, L2, and Early Stopping 5 min

▶ **Video:** Regularization: Dropout 5 min

▶ **Video:** Lab Intro: Keras Functional API 38 sec

⊡ **Graded External Tool:** Lab: Introducing the Keras Functional API 1h   Due Feb 22, 1:59 AM CST

Video: Recap   57 sec