

Overview

Week 1

Week 2

Week 3

Week 4

Week 5

Grades

Notes

Discussion Forums

Messages

Week 1

Custom Models, Layers, and Loss Functions with TensorFlow

Week 1

Discuss the topic here.

97 threads · Last post 4 days ago

Go to forum

Functional APIs





Compare how the Functional API differs from the Sequential API, and see how the Functional API gives you additional flexibility in designing models. Practice using the functional API and build a Siamese network!

Learning Objectives

- Review Sequential API and compare with Functional API
- Describe new model types that you can build with Functional API
- Functional API: define input, layers, and model
- Use Functional API to build a model
- Use Functional API to create a model that produces multiple outputs
- Use Functional API to build a Siamese network



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▶ Video: A conversation with Andrew Ng: Overview of the specialization 6 min

Resume

- Reading: Connect with your mentors and fellow learners on Slack! 10 min
- ▶ Video: A conversation with Andrew Ng: Overview of course 1 4 min

Functional APIs

- ▶ Video: Welcome to the course 23 sec
- Video: Introduction to the Functional APIs 6 min
- Lab: Functional API Practice 1h

Using the Functional APIs

- ▶ Video: Declaring and stacking layers 2 min
- ▶ Video: Branching models 2 min
- Reading: Learn more about the Inception Model Architecture 10 min

Creating a Multi-Output Architecture



