deeplearning.ai

Overview

Week 1

Week 2

Week 3

Week 4

Grades

Notes

Discussion Forums

Messages

Course Info

Week 2

Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

Week 2
Discuss this week's modules here.

714 threads · Last post 4 hours ago

Go to forum

Introduction to Computer Vision

👤 Laurence Moroney

Welcome to week 2 of the course! In week 1 you learned all about how Machine Learning and Deep Learning is a new programming paradigm. This week you're going to take that to the next level by beginning to solve problems of computer vision with just a few lines of code! Check out this conversation between Laurence and Andrew where they discuss it and introduce you to Computer Vision!

∧ **Less**

Introduction to Computer Vision

▶ **Video:** A Conversation with Andrew Ng   2 min   **Resume**

▶ **Video:** An Introduction to computer vision   2 min

📖 **Reading:** Exploring how to use data   10 min

▶ **Video:** Writing code to load training data   2 min

📖 **Reading:** The structure of Fashion MNIST data   10 min

▶ **Video:** Coding a Computer Vision Neural Network   2 min

📖 **Reading:** See how it's done   10 min

▶ **Video:** Walk through a Notebook for computer vision   3 min

📖 **Reading:** Get hands-on with computer vision   1h

▶ **Video:** Using Callbacks to control training   1 min

📖 **Reading:** See how to implement Callbacks   10 min

▶ **Video:** Walk through a notebook with Callbacks   1 min

📄 **Quiz:** Week 2 Quiz   8 questions   Due Nov 16, 1:59 AM CST

Weekly Exercise - Implement a Deep Neural Network to recognize handwritten digits

🔲 **Lab:** Exercise 2 (Handwriting Recognition)   1h

</> **Programming Assignment:** Exercise 2   3h   Due Nov 16, 1:59 AM CST

📖 **Reading:** Week 2 Resources   10 min

Optional: Ungraded Google Colaboratory environment

⧉ **Ungraded External Tool:** Exercise 2 (Handwriting Recognition) 1h

⧉ **Ungraded External Tool:** Exercise 2 (Handwriting Recognition) 1h