

Explore 🗸

What do you want to learn?







Overview

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Course Info

Week 4

Natural Language Processing in TensorFlow

Week 4

Discuss this week's modules here.

108 threads · Last post 20 days ago

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Sequence models and literature



Laurence Moroney

Taking everything that you've learned in training a neural network based on NLP, we thought it might be a bit of fun to turn the tables away from classification and use your knowledge for prediction. Given a body of words, you could conceivably predict the word most likely to follow a given word or phrase, and once you've done that, to do it again, and again. With that in mind, this week you'll build a poetry generator. It's trained with the lyrics from traditional Irish songs, and can be used to produce beautiful-sounding verse of it's own!

∧ Less

Sequence models and literature

▶ Video: A conversation with Andrew Ng 1 min

- ▶ Video: Introduction 1 min
- ▶ Video: Looking into the code 57 sec
- ▶ Video: Training the data 2 min
- ▶ Video: More on training the data 1 min
- Reading: Check out the code! 10 min
- ▶ Video: Notebook for lesson 1 8 min
- ▶ Video: Finding what the next word should be 2 min
- ▶ Video: Example 1 min
- ▶ Video: Predicting a word 1 min
- ▶ Video: Poetry! 40 sec
- Reading: link to Laurence's poetry 10 min
- ▶ Video: Looking into the code 1 min
- ▶ Video: Laurence the poet! 1 min
- Reading: Check out the code! 10 min
- ▶ Video: Your next task 1 min
- Reading: Link to generating text using a character-based RNN 10 min
- Quiz: Week 4 Quiz 8 questions Due Nov 30, 1:59 AM CST

Weekly Exercise- Using LSTMs, see if you can write Shakespeare!

- (I) Ungraded External Tool: Exercise 4- Using LSTMs, see if you can write Shakespeare! 1h
- (I) Ungraded External Tool: Exercise 4 Answer- Using LSTMs, see if you can write Shakespeare! 1h

Course 3 Wrap up

- Reading: Wrap up 10 min
- ▶ Video: A conversation with Andrew Ng 1 min

