deeplearning.ai
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Week 3

Natural Language Processing in TensorFlow

Week 3

Discuss this week's modules here.

246 threads · Last post 11 hours ago

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Sequence models

Laurence Moroney

In the last couple of weeks you looked first at Tokenizing words to get numeric values from them, and then using Embeddings to group words of similar meaning depending on how they were labelled. This gave you a good, but rough, sentiment analysis -- words such as 'fun' and 'entertaining' might show up in a positive movie review, and 'boring' and 'dull' might show up in a negative one. But sentiment can also be determined by the sequence in which words appear. For example, you could have 'not fun', which of course is the opposite of 'fun'. This week you'll start digging into a variety of model formats that are used in training models to understand context in sequence!

Less

Sequence models

Video: A conversation with Andrew Ng 2 min — Resume

Video: Introduction 2 min

Reading: Link to Andrew's sequence modeling course 10 min

Video: LSTMs 2 min

Reading: More info on LSTMs 10 min

Video: Implementing LSTMs in code 1 min

Reading: Check out the code! 10 min

Video: Accuracy and loss 1 min

Video: A word from Laurence 35 sec

Video: Looking into the code 1 min

Video: Using a convolutional network 1 min

Reading: Check out the code! 10 min

Video: Going back to the IMDB dataset 1 min

Reading: Check out the code! 10 min

Video: Tips from Laurence 37 sec

Reading: Exploring different sequence models 10 min

Quiz: Week 3 Quiz 8 questions Due Nov 23, 1:59 AM CST

Reading: Week 3 Wrap up 10 min

Reading: Week 3 Wrap up 10 min

Weekly Exercise- Exploring overfitting in NLP

Ungraded External Tool: Exercise 3- Exploring overfitting in NLP 1h

Ungraded External Tool: Exercise 3 Answer- Exploring overfitting in NLP 1h