

Sequence models and literature

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Video: A conversation with Andrew Ng
1 min
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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

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

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

Course 3 Wrap up

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

Wrap up

Over the last four weeks you've gotten a grounding in how to do Natural Language processing with TensorFlow and Keras. You went from first principles -- basic Tokenization and Padding of text to produce data structures that could be used in a Neural Network.

You then learned about embeddings, and how words could be mapped to vectors, and words of similar semantics given vectors pointing in a similar direction, giving you a mathematical model for their meaning, which could then be fed into a deep neural network for classification.

From there you started learning about sequence models, and how they help deepen your understanding of sentiment in text by not just looking at words in isolation, but also how their meanings change when they qualify one another.

You wrapped up by taking everything you learned and using it to build a poetry generator!

This is just a beginning in using TensorFlow for natural language processing. I hope it was a good start for you, and you feel equipped to go to the next level!

✓ Complete

Go to next item

