

Sequence models and literature

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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

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

Course 3 Wrap up



Congratulations! You passed!

TO PASS 80% or higher

Keep Learning

GRADE
100%

Week 4 Quiz

Week 4 Quiz

LATEST SUBMISSION GRADE

100%



Submit your assignment

Try again

1. What is the name of the method used to tokenize a list of sentences?

1 / 1 point

- ☐

fit_to_text(sentences)
- ✓

Receive grade
- ☐

tokenize_on_text(sentences)
- ☒

fit_on_texts(sentences)
- ☐

tokenize(sentences)

Grade
100%

View Feedback

We keep your highest score



Correct

2. If a sentence has 120 tokens in it, and a Conv1D with 128 filters with a Kernal size of 5 is passed over it, what's the output shape?

1 / 1 point

- ☐

(None, 120, 124)
- ☒

(None, 116, 128)
- ☐

(None, 120, 128)
- ☐

(None, 116, 124)



Correct

3. What is the purpose of the embedding dimension?

1 / 1 point

- ☐

It is the number of words to encode in the embedding
- ☐

It is the number of dimensions required to encode every word in the corpus
- ☐

It is the number of letters in the word, denoting the size of the encoding
- ☒

It is the number of dimensions for the vector representing the word encoding



Correct

4. IMDB Reviews are either positive or negative. What type of loss function should be used in this scenario?

1 / 1 point

- ☒

Binary crossentropy
- ☐

Categorical crossentropy
- ☐

Binary Gradient descent
- ☐

Adam



Correct

5. If you have a number of sequences of different lengths, how do you ensure that they are understood when fed into a neural network?

1 / 1 point

- ☒

Use the pad_sequences object from the tensorflow.keras.preprocessing.sequence namespace
- ☐

Process them on the input layer of the Neural Network using the pad_sequences property
- ☐

Make sure that they are all the same length using the pad_sequences method of the tokenizer
- ☐

Specify the input layer of the Neural Network to expect different sizes with dynamic_length



Correct

6. When predicting words to generate poetry, the more words predicted the more likely it will end up gibberish. Why?

1 / 1 point

- ☐

Because the probability of prediction compounds, and thus increases overall
- ☐

It doesn't, the likelihood of gibberish doesn't change
- ☒

Because the probability that each word matches an existing phrase goes down the more words you create
- ☐

Because you are more likely to hit words not in the training set



Correct