

Week 3 Quiz

Quiz, 8 questions

8/8 points (100%)

Congratulations! You passed!

[Next Item](#)1 / 1
point

1.

Why does sequence make a large difference when determining semantics of language?

- ☐ It doesn't
- ☐ Because the order in which words appear dictate their meaning
- ☐ Because the order of words doesn't matter
- ☒ Because the order in which words appear dictate their impact on the meaning of the sentence

**Correct**1 / 1
point

2.

How do Recurrent Neural Networks help you understand the impact of sequence on meaning?

- ☐ They look at the whole sentence at a time
- ☐ They don't
- ☒ They carry meaning from one cell to the next

**Correct**

- ☐ They shuffle the words evenly

Week 3 Quiz ^{1/1} point

Quiz, 8 questions

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3.

How does an LSTM help understand meaning when words that qualify each other aren't necessarily beside each other in a sentence?

- ☐ They don't
- ☐ They shuffle the words randomly
- ☐ They load all words into a cell state
- ☒ Values from earlier words can be carried to later ones via a cell state

Correct



1 / 1
point

4.

What keras layer type allows LSTMs to look forward and backward in a sentence?

- ☐ Bothdirection
- ☐ Unilateral
- ☐ Bilateral
- ☒ Bidirectional

Correct



1 / 1
point

5.

What's the output shape of a bidirectional LSTM layer with 64 units?

- ☐ (None, 64)
- ☒ (None, 128)

Week 3 Quiz

Quiz, 8 questions

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- ☐ (128,1)
- ☐ (128,None)
-

1 / 1
point

6.

When stacking LSTMs, how do you instruct an LSTM to feed the next one in the sequence?

- ☐ Ensure that they have the same number of units
- ☐ Ensure that return_sequences is set to True on all units
- ☒ Ensure that return_sequences is set to True only on units that feed to another LSTM

**Correct**

- ☐ Do nothing, TensorFlow handles this automatically
-

1 / 1
point

7.

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

- ☐ (None, 120, 124)
- ☐ (None, 120, 128)
- ☒ (None, 116, 128)

**Correct**

- ☐ (None, 116, 124)
-

Week 3 Quiz ^{1/1} point

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8.

What's the best way to avoid overfitting in NLP datasets?

- ☐ Use LSTMs
- ☐ Use GRUs
- ☐ Use Conv1D
- ☒ None of the above

Correct

