Week 3 Quiz

Quiz, 8 questions

7/8 points (87.50%)

Congratulations! You passed!

Next Item

1 / 1 point

1.
Why does sequence make a large difference when determining semantics of language?

- Because the order in which words appear dictate their meaning
- Because the order of words doesn't matter
- It doesn't
- 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 shuffle the words evenly
- They carry meaning from one cell to the next

Correct

- They don't

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1 / 1 point

3.
How does an LSTM help understand meaning when words that qualify each other aren't necessarily beside each other in a sentence?

- [x] Values from earlier words can be carried to later ones via a cell state

Correct

- [ ] They don't
- [ ] They load all words into a cell state
- [ ] They shuffle the words randomly

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1 / 1 point

4.
What keras layer type allows LSTMs to look forward and backward in a sentence?

- [ ] Bothdirection
- [ ] Unilateral
- [ ] Bilateral
- [x] Bidirectional

Correct

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0 / 1 point

5.
What's the output shape of a bidirectional LSTM layer with 64 units?

- [ ] (128,None)

This should not be selected

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(None, 128,1)

(None, 64)

(None, 128)

1 / 1 point

6.
When stacking LSTMs, how do you instruct an LSTM to feed the next one in the sequence?

Ensure that return_sequences is set to True on all units

Ensure that they have the same number of units

Do nothing, TensorFlow handles this automatically

Ensure that return_sequences is set to True only on units that feed to another LSTM

Correct

1 / 1 point

7.
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?

(None, 116, 128)

Correct

(None, 120, 124)

(None, 120, 128)

(None, 116, 124)

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8. 1 / 1 point

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

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

Correct