

# Week 3 Quiz

## 1.Question 1

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

Because the order in which words appear dictate their impact on the meaning of the sentence

## 2.Question 2

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

They carry meaning from one cell to the next

## 3.Question 3

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

Values from earlier words can be carried to later ones via a cell state

## 4.Question 4

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

Bidirectional

## 5.Question 5

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

(None, 128)

## 6.Question 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 only on units that feed to another LSTM

#### **7.Question 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?**

#### **8.Question 8**

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

None of the above

END