

Week 3 Quiz

LATEST SUBMISSION GRADE

87.5%

1.Question 1

If X is the standard notation for the input to an RNN, what are the standard notations for the outputs?

\hat{Y} and H

2.Question 2

What is a sequence to vector if an RNN has 30 cells numbered 0 to 29

The \hat{Y} for the last cell

3.Question 3

Allows you to execute arbitrary code while training

4.Question 4

Defines the dimension index at which you will expand the shape of the tensor

5.Question 5

A new loss function was introduced in this module, named after a famous statistician. What is it called?

Huber loss

6.Question 6

In addition to the H output, LSTMs have a cell state that runs across all cells

7.Question 7

If you want to clear out all temporary variables that tensorflow might have from previous sessions, what code do you run?

```
tf.keras.backend.clear_session()
```

8.Question 8

What happens if you define a neural network with these two layers?

```
tf.keras.layers.Bidirectional(tf.keras.layers.LSTM(32)),
```

```
tf.keras.layers.Bidirectional(tf.keras.layers.LSTM(32)),
```

```
tf.keras.layers.Dense(1),
```

Your model will fail because you need `return_sequences=True` after the first LSTM layer

END