Week 3 Quiz

LATEST SUBMISSION GRADE

100%

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

○ Y

○ H

Y(hat) and H

H(hat) and Y

1/1 point

2.	What is a sequence to vector if an RNN has 30 cells numbered 0 to 29	1 / 1 point
	The average Y(hat) for all 30 cells	
	The Y(hat) for the first cell	
	The Y(hat) for the last cell	
	The total Y(hat) for all cells	
	✓ Correct	

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3.	What does a Lambda layer in a neural network do?	1 / 1 point
	Changes the shape of the input or output data	
	Allows you to execute arbitrary code while training	
	O Pauses training without a callback	
	There are no Lambda layers in a neural network	
	✓ Correct	

4.	What does the axis parameter of tf.expand_dims do?	1/1 point
	O Defines if the tensor is X or Y	
	Defines the dimension index at which you will expand the shape of the tensor	
	Oefines the dimension index to remove when you expand the tensor	
	O Defines the axis around which to expand the dimensions	
	✓ Correct	

5.	A new loss function was introduced in this module, named after a famous statistician. What is it called?	1/1 point
	O Hyatt loss	
	O Hawking loss	
	• Huber loss	
	O Hubble loss	
	✓ Correct	

6.	What's the primary difference between a simple RNN and an LSTM	1/1 point
	O LSTMs have multiple outputs, RNNs have a single one	
	O In addition to the H output, RNNs have a cell state that runs across all cells	
	LSTMs have a single output, RNNs have multiple	
	In addition to the H output, LSTMs have a cell state that runs across all cells	
	✓ Correct	

' .	If you want to clear out all temporary variables that tensorflow might have from previous sessions, what code do you run?	1 / 1 point
	() tf.cache.clear_session()	
	tf.keras.backend.clear_session()	
	tf.cache.backend.clear_session()	
	○ tf.keras.clear_session	
	✓ Correct	

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
- Your model will compile and run correctly
- O Your model will fail because you need return_sequences=True after each LSTM layer
- O Your model will fail because you have the same number of cells in each LSTM