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? | 1/1 point |
|----|---|-----------|
| | ○ Y | |
| | Он | |
| | Y(hat) and H | |
| | ○ H(hat) and Y | |
| | | |
| | | |
| | ✓ Correct | |
| | | |
| 2. | What is a sequence to vector if an RNN has 30 cells numbered 0 to 29 | 1/1 point |
| | The total Y(hat) for all cells | |
| | ○ The Y{hat} for the first cell | |
| | ☐ The average Y{hat} for all 30 cells | |
| | The Y(hat) for the last cell | |
| | | |
| | ✓ Correct | |
| | | |

| 3. | What does a Lambda layer in a neural network do? | 1 / 1 point |
|----|--|-------------|
| | Allows you to execute arbitrary code while training | |
| | Pauses training without a callback | |
| | There are no Lambda layers in a neural network | |
| | Changes the shape of the input or output data | |
| | ✓ Correct | |
| 4. | What does the axis parameter of tf.expand_dims do? | 1/1 point |
| | Defines the axis around which to expand the dimensions | |
| | Defines the dimension index to remove when you expand the tensor | |
| | O Defines if the tensor is X or Y | |
| | Defines the dimension index at which you will expand the shape of the tensor | |
| | ✓ Correct | |
| 5. | A new loss function was introduced in this module, named after a famous statistician. What is it called? Hyatt loss Huber loss Hawking loss Hubble loss | 1 / 1 point |
| | ✓ Correct | |
| 6. | What's the primary difference between a simple RNN and an LSTM | 1/1 point |
| | In addition to the Houtput, LSTMs have a cell state that runs across all cells | |
| | L5TMs have a single output, RNNs have multiple | |
| | LSTMs have multiple outputs, RNNs have a single one | |
| | In addition to the Houtput, RNNs have a cell state that runs across all cells | |
| | ✓ Correct | |
| | | |

| 7. | 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.clear_session | |
| | tf.cache.backend.clear_session() | |
| | tf.keras.backend.clear_session() | |
| | ✓ Correct | |
| 8. | What happens if you define a neural network with these two layers? | 1/1 point |
| | tf.keras.layers.Bidirectional(tf.keras.layers.LSTM(32)), | |
| | tf.keras.layers.Bidirectional(tf.keras.layers.LSTM(32)), | |
| | tf.keras.layers.Dense(1), | |
| | O Your model will fail because you have the same number of cells in each LSTM | |
| | Your model will compile and run correctly | |
| | Your model will fail because you need return_sequences=True after the first L5TM layer | |
| | Your model will fail because you need return_sequences=True after each L5TM layer | |
| | ✓ Correct | |
| | | |