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Week 1 Quiz
Graded Assignment • 30 min

English **Due** May 25, 10:59 PM CST

1. In the lectures, what is the name of the layer used to generate the vocabulary? 1 point

- [x] TextVectorization
- [ ] TextTokenizer
- [ ] Tokenizer
- [ ] WordTokenizer

2. Once you have generated a vocabulary, how do you encode a string sentence to an integer sequence? 1 point

- [ ] Pass the string to the get_vocabulary() method.
- [x] Pass the string to the adapted TextVectorization layer.
- [ ] Use the texts_to_sequences() method of the adapted TextVectorization layer.
- [ ] Use the texts_to_tokens() method of the adapted TextVectorization layer.

3. If you have a number of sequences of different lengths, how do you ensure that they are understood when fed into a neural network? 1 point

- [ ] Make sure that they are all the same length using the pad_sequences method of the TextVectorization layer
- [x] Use the pad_sequences function from tf.keras.utils
- [ ] Specify the input layer of the Neural Network to expect different sizes with dynamic_length
- [ ] Process them on the input layer of the Neural Network using the pad_sequences property

4. What happens at encoding when passing a string that is not part of the vocabulary? 1 point

- [ ] The word is replaced by the most common token
- [x] An out-of-vocabulary token is used to represent it.
- [ ] The word isn't encoded, and is replaced by a zero in the sequence
- [ ] The word isn't encoded, and the sequencing ends

5. When padding sequences, if you want the padding to be at the end of the sequence, how do you do it? 1 point

- [ ] Call the padding method of the pad_sequences object, passing it 'post'
- [x] Pass padding='post' to pad_sequences when initializing it
- [ ] Call the padding method of the pad_sequences object, passing it 'after'
- [ ] Pass padding='after' to pad_sequences when initializing it

6. What's one way to convert a list of strings named 'sentences' to integer sequences? Assume you adapted a TextVectorization layer and assigned it to a variable named 'vectorize_layer'. 1 point

- [ ] vectorize_layer.tokenize(sentences)
- [ ] vectorize_layer.fit(sentences)
- [ ] vectorize_layer.fit_to_text(sentences)
- [x] vectorize_layer(sentences)

7. If you have a number of sequences of different length, and call pad_sequences on them, what's the default result? 1 point

- [x] They'll get padded to the length of the longest sequence by adding zeros to the beginning of shorter ones
- [ ] Nothing, they'll remain unchanged
- [ ] They'll get cropped to the length of the shortest sequence
- [ ] They'll get padded to the length of the longest sequence by adding zeros to the end of shorter ones

8. Using the default settings, how does the TextVectorization standardize the string inputs? 1 point

- [x] By lowercasing and stripping punctuation.
- [ ] By arranging the strings in alphabetical order.
- [ ] By stripping punctuation.
- [ ] By lowercasing the strings.