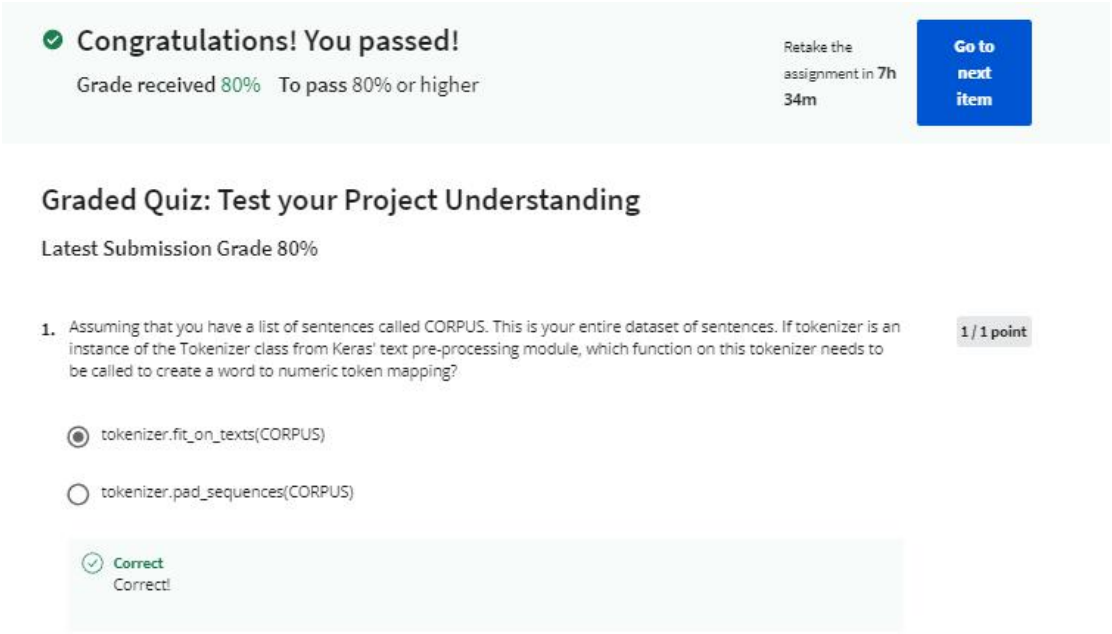
PRABAL GHOSH

Tweet Emotion Recognition with TensorFlow



Congratulations! You passed!

Grade received 80% To pass 80% or higher

Retake the assignment in 7h 34m

Go to next item

Graded Quiz: Test your Project Understanding

Latest Submission Grade 80%

1. Assuming that you have a list of sentences called CORPUS. This is your entire dataset of sentences. If tokenizer is an instance of the Tokenizer class from Keras' text pre-processing module, which function on this tokenizer needs to be called to create a word to numeric token mapping?

1 / 1 point

- (●) tokenizer.fit_on_texts(CORPUS)
- ( ) tokenizer.pad_sequences(CORPUS)

Correct

Correct!

2. Assuming that you have a list of tokenized sequences called S. The lengths of sequences in S range from 3 to 30. How would you create a list of padded sequences where each sequence length should be equal to 20. **1 / 1 point**

```
from tensorflow.keras.preprocessing.sequence import pad_sequences

pad_sequences(S, maxlen=20)
```

```
from tensorflow.keras.preprocessing.sequence import pad_sequences

pad_sequences(S, truncating='post', maxlen=50, padding='post')
```

```
from tensorflow.keras.preprocessing.sequence import pad_sequences

pad_sequences(S, truncating='post', maxlen=20, padding='post')
```

Correct
Correct!

3. If you have the following Embedding layer: **0 / 1 point**

```
tf.keras.layers.Embedding(10000, 32, input_length=50)
```

What is the dimension of the output of this layer? You can ignore the first dimension typically used for batch size and write your answer as X, Y where X and Y are both positive integers.

32

Incorrect
Incorrect. Each token is encoded as a 32 dimensional vector in this layer

4. Will the following piece of code work? **1 / 1 point**

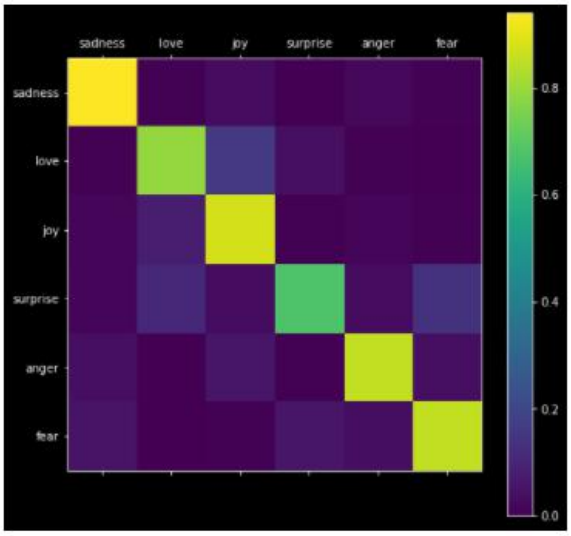
```
model = tf.keras.models.Sequential([
    tf.keras.layers.Embedding(10000, 16, input_length=50),
    tf.keras.layers.Bidirectional(tf.keras.layers.LSTM(20, return_sequences=False)),
    tf.keras.layers.Bidirectional(tf.keras.layers.LSTM(20)),
    tf.keras.layers.Dense(6, activation='softmax')
])
```

- No
- Yes

Correct
Correct! Unless we return all sequential outputs from the first bidirectional LSTM, this code will not work!

5. Given the following confusion matrix

1 / 1 point



Which class seems to get confused with the class **love** the most?

- (●) joy
- ( ) anger
- ( ) surprise