

NATURAL LANGUAGE PROCESSING WITH TENSORFLOW

← Week 2 Quiz Graded Quiz0

Due May 11, 12:29 PM IST

1. What is the name of the TensorFlow library containing common data that you can use to train and test neural networks?

1 / 1 point

- ☐ TensorFlow Data
- ☐ TensorFlow Data Libraries
- ☒ TensorFlow Datasets
- ☐ There is no library of common data sets, you have to use your own

✓ Correct

2. How many reviews are there in the IMDB dataset and how are they split?

1 / 1 point

- ☐ 60,000 records, 80/20 train/test split
- ☐ 60,000 records, 50/50 train/test split
- ☒ 50,000 records, 50/50 train/test split
- ☐ 50,000 records, 80/20 train/test split

✓ Correct

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3. How are the labels for the IMDB dataset encoded?

1 / 1 point

- ☐ Reviews encoded as a number 1-10
- ☒ Reviews encoded as a number 0-1
- ☐ Reviews encoded as a boolean true/false
- ☐ Reviews encoded as a number 1-5

✓ Correct

4. What is the purpose of the embedding dimension?

1 / 1 point

- ☐ It is the number of letters in the word, denoting the size of the encoding
- ☐ It is the number of words to encode in the embedding
- ☐ It is the number of dimensions required to encode every word in the corpus
- ☒ It is the number of dimensions for the vector representing the word encoding

✓ Correct



Screenshot saved

The screenshot was added to your OneDrive.

OneDrive



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5. When tokenizing a corpus, what does the `num_words=n` parameter do?

1 / 1 point

- ☐ It specifies the maximum number of words to be tokenized, and picks the first 'n' words that were tokenized
- ☐ It errors out if there are more than n distinct words in the corpus
- ☐ It specifies the maximum number of words to be tokenized, and stops tokenizing when it reaches n
- ☒ It specifies the maximum number of words to be tokenized, and picks the most common 'n' words

✓ Correct

6. To use word embeddings in TensorFlow, in a sequential layer, what is the name of the class?

1 / 1 point

- ☐ `tf.keras.layers.Word2Vector`
- ☒ `tf.keras.layers.Embedding`
- ☐ `tf.keras.layers.WordEmbedding`
- ☐ `tf.keras.layers.Embed`

✓ Correct



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7. IMDB Reviews are either positive or negative. What type of loss function should be used in this scenario?

1 / 1 point

- ☐ Categorical crossentropy
- ☒ Binary crossentropy
- ☐ Adam
- ☐ Binary Gradient descent

✓ Correct

8. When using IMDB Sub Words dataset, our results in classification were poor. Why?

1 / 1 point

- ☐ Our neural network didn't have enough layers
- ☐ The sub words make no sense, so can't be classified
- ☒ Sequence becomes much more important when dealing with subwords, but we're ignoring word positions
- ☐ We didn't train long enough

✓ Correct