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Week 2 Quiz

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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**

- ◉ 50,000 records, 50/50 train/test split
- ○ 60,000 records, 80/20 train/test split
- ○ 60,000 records, 50/50 train/test split
- ○ 50,000 records, 80/20 train/test split

✓ **Correct**

3. How are the labels for the IMDB dataset encoded? **1 / 1 point**

- ◉ Reviews encoded as a number 0-1
- ○ Reviews encoded as a number 1-10
- ○ Reviews encoded as a number 1-5
- ○ Reviews encoded as a boolean true/false

✓ **Correct**

4. What is the purpose of the embedding dimension? **1 / 1 point**

- ○ It is the number of words to encode in the embedding
- ○ It is the number of letters in the word, denoting the size of the encoding
- ○ 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

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 stops tokenizing when it reaches n
- ○ 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 picks the first 'n' words that were tokenized
- ◉ 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.Embedding
- ○ tf.keras.layers.Word2Vector
- ○ tf.keras.layers.WordEmbedding
- ○ tf.keras.layers.Embed

✓ Correct

7. IMDB Reviews are either positive or negative. What type of loss function should be used in this scenario? 1 / 1 point

- ○ Binary Gradient descent
- ◉ Binary crossentropy
- ○ Categorical crossentropy
- ○ Adam

✓ Correct

8. When using IMDB Sub Words dataset, our results in classification were poor. Why? 1 / 1 point

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

✓ Correct