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Week 4 Quiz

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DUE DATE Oct 26, 12:29 PM IST **ATTEMPTS** 3 every 8 hours

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1. What is the name of the method used to tokenize a list of sentences? **1 / 1 point**

- fit_to_text(sentences)
- tokenize_on_text(sentences)
- [x] fit_on_texts(sentences)
- tokenize(sentences)

Correct

2. If a sentence has 120 tokens in it, and a Conv1D with 128 filters with a Kernal size of 5 is passed over it, what's the output shape? **1 / 1 point**

- (None, 120, 124)
- [x] (None, 116, 128)
- (None, 120, 128)
- (None, 116, 124)

Correct

3. 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 dimensions required to encode every word in the corpus
- It is the number of letters in the word, denoting the size of the encoding
- [x] It is the number of dimensions for the vector representing the word encoding

Correct

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

- [x] Binary crossentropy
- Categorical crossentropy
- Binary Gradient descent
- Adam

Correct

5. 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 / 1 point**

- [x] Use the pad_sequences object from the tensorflow.keras.preprocessing.sequence namespace
- Process them on the input layer of the Neural Network using the pad_sequences property
- Make sure that they are all the same length using the pad_sequences method of the tokenizer
- Specify the input layer of the Neural Network to expect different sizes with dynamic_length

Correct

6. When predicting words to generate poetry, the more words predicted the more likely it will end up gibberish. Why? **1 / 1 point**

- Because the probability of prediction compounds, and thus increases overall
- It doesn't, the likelihood of gibberish doesn't change
- [x] Because the probability that each word matches an existing phrase goes down the more words you create
- Because you are more likely to hit words not in the training set

Correct