Week 4 Quiz

Quiz, 8 questions

8/8 points (100%)

Congratulations! You passed!

Next Item

1 / 1 point

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

- fit_to_text(sentences)
- tokenize_on_text(sentences)
- tokenize(sentences)
- fit_on_texts(sentences)

Correct

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1 / 1 point

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?

- (None, 116, 128)

Correct

- (None, 120, 124)
- (None, 120, 128)
- (None, 116, 124)

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1 / 1

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1 / 1 point

What is the purpose of the embedding dimension?

- [x] It is the number of dimensions for the vector representing the word encoding

Correct

- [ ] 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 words to encode in the embedding

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1 / 1 point

4.

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

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

Correct

- [ ] Binary Gradient descent

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1 / 1 point

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?

- [ ] Process them on the input layer of the Neural Network using the pad_sequences property
- [ ] Specify the input layer of the Neural Network to expect different sizes with dynamic_length
- [x] Use the pad_sequences object from the tensorflow.keras.preprocessing.sequence namespace

Correct

Make sure that they are all the same length using the pad_sequences method of the tokenizer

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1 / 1 point

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

- It doesn't, the likelihood of gibberish doesn't change
- Because you are more likely to hit words not in the training set
- Because the probability that each word matches an existing phrase goes down the more words you create

Correct

- Because the probability of prediction compounds, and thus increases overall

1 / 1 point

7.
What is a major drawback of word-based training for text generation instead of character-based generation?

- Character based generation is more accurate because there are less characters to predict
- Because there are far more words in a typical corpus than characters, it is much more memory intensive

Correct

- There is no major drawback, it's always better to do word-based training
- Word based generation is more accurate because there is a larger body of words to draw from

1 / 1 point

8.

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How does an LSTM help understand meaning when words that qualify each other aren't necessarily beside each other in a sentence?

8/8 points (100%)

- They load all words into a cell state
- Values from earlier words can be carried to later ones via a cell state

Correct

- They shuffle the words randomly
- They don't