Quiz_C3W4

Congratulations! You passed!

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Go

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

   - ○ Because the probability of prediction compounds, and thus increases overall
   - ○ It doesn't, the likelihood of gibberish doesn't change
   - ◉ 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
   That's right!

2. 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
   - ○ 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

   Correct
   Correct!

3. What are the critical steps in preparing the input sequences for the prediction model?

   - ☑ Pre-padding the subprhases sequences.

   Correct
   You've got it!

   - ☐ Converting the seed text to a token sequence using texts_to_sequences.
   - ☐ Splitting the dataset into training and testing sentences.
   - ☑ Generating subphrases from each line using n_gram_sequences.

   Correct
   Keep it up!

4. In natural language processing, predicting the next item in a sequence is a classification problem.Therefore, after creating inputs and labels from the subphrases, we one-hot encode the labels. What function do we use to create one-hot encoded arrays of the labels?

- ○ tf.keras.utils.img_to_array
- ○ tf.keras.utils.SequenceEnqueuer
- ◉ tf.keras.utils.to_categorical
- ○ tf.keras.preprocessing.text.one_hot

Correct
Nailed it!

5. True or False: When building the model, we use a sigmoid activated Dense output layer with one neuron per word that lights up when we predict a given word.

- ○ True
- ◉ False

Correct
Absolutely!