## 축하합니다! 통과하셨습니다!

**받은 학점** 100% **최신 제출물 학점** 100% **통과 점수:** 80% 이상

다음 항목으로 이동

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

- ○ Because you are more likely to hit words not in the training set
- ○ 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 the probability of prediction compounds, and thus increases overall

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That's right!

**2.** What is a major drawback of word-based training for text generation instead of character-based generation? **1 / 1점**

- ◉ 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
- ○ Character based generation is more accurate because there are less characters to predict

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Correct!

**3.** What are the critical steps in preparing the input sequences for the prediction model? **1 / 1점**

- ☑ Pre-padding the subphrases sequences.

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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.

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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? **1 / 1점**

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

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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. **1 / 1점**

- ◉ False
- ○ True

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Absolutely!