Knowledge Checks

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DAT236x-M6-04

1/1 point (graded)

You have a dictionary that has 100 words. Consider two of those words: "sushi" and "sashimi". You create a one-hot encoding of these two words. Despite the words being very similar (both are popular Japanese food item), the use of one-hot encoding gives you a poor similarity Cosine similarity score. How can you better compare the two words? (There may be more than one correct answers)

- [ ] Change to 1-cosine_similarity
- [x] Perform linear embedding
- [x] Use other embedding techniques such as Word2Vec or GloVe

✔

Submit You have used 1 of 1 attempt

✔ Correct (1/1 point)

DAT236x-M6-05

1/1 point (graded)

You have a deep network which input is a one-hot encoded vector and the output is a softmax classification of the input. You have decided to create an embedding layer. Which three of the following options are possible ways to leveraging word embeddings?

- [x] Use a linear embedding with randomly initialized embedding matrix
- [x] Create an embedding matrix using Word2Vec or GloVe and initialize the linear embedding layer
- [ ] Save computations, and have a fixed matrix of all ones as your embedding matrix
- [x] Directly use the Word2Vec or GloVe embeddings as input to the next layer

✔

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✔ Correct (1/1 point)

DAT236x-M6-03

1/1 point (graded)

You have a dictionary that has 100 words. Consider two of those words: one being the 50th word in the vocabulary and the other being the 51st word. The two words are "sushi" and "sashimi". You create a one-hot encoding of these two words. You then compute the Cosine similarity between the two words. What is the resulting similarity measure?

- ○ 1
- ◉ 0 ✔
- ○ 0.01
- ○ 0.02

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

DAT236x-M6-01

1/1 point (graded)

You have a dictionary that has 10 words. Consider the following sentence: "I love sushi very much". Which of the following option could be the one-hot encoded vector of the word "sushi"?

- 3
- 1 1 1
- 0 0 1 0 0
- 0 0 3 0 0
- 0 0 1 0 0 0 0 0 0 0 ✔
- 0 0 3 0 0 0 0 0 0 0

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

DAT236x-M6-02

1/1 point (graded)

You have a dictionary that has 10 words, including all the 5 words from a sentence "I love sushi very much". What is the length of the one-hot encoded vector of the word "sushi", if "sushi" is the third word in the dictionary?

- 1
- 3

- 5
- 10 ✔
- None of the above

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✔ Correct (1/1 point)

English ▼