31/05/2022, 19:46 Quiz 1: Coursework

Ouiz 1: Coursework

The Preprocessing Step

*Required

Please enter your name: *

Preprocessing the data

Let us consider the following corpus

Raw Corpus

 $\mathcal{D}_1 = ext{ Neural Networks are awesome}$

 $\mathcal{D}_2 = ext{ LSTMs}$ are Sequential Neural Networks $\mathcal{D}_3 = ext{ Attention Models}$ are awesome

31/05/2022, 19:46 Quiz 1: Coursework

The word2idx dictionary associated with the Raw Corpus is the following dictionary:

Models : 8 }

2. What is the one hot vector representing the word "Sequential"?

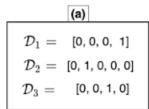
1 point

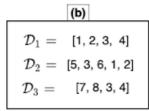
Mark only one oval.

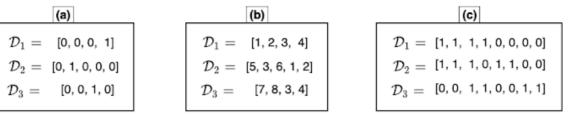
[0, 0, 0, 0, 0, 1, 0, 0]

[0, 0, 0, 0, 0, 6, 0, 0]

3. Using the word2idx dictionary, which answer represents the processed raw corpus into lists 1 point of integers, as explained in the Coursework







Mark only one oval.

-) (a)

Introducing the Context Words

Let us consider a context size = 2 in the rest of the section

What are the context words associated with the center word 5? 4.

1 point

$$\mathcal{D}_2=$$
 [$oldsymbol{5}$, 3, 6 , 1 , 2]

Mark only one oval.

- [3, 6, 1]
-) [1, 2, 3, 6]
- [3, 6]

5. What are the context words associated with the center word 3?

1 point

$$\mathcal{D}_2 = [\ 5\ , \boxed{3},\ 6\ ,\ 1\ ,\ 2\]$$

Mark only one oval.

- [5, 6]
- [5, 6, 1]
- [6, 1, 2]
- **6.** What are the context words associated with the center word 6?

1 point

$$\mathcal{D}_2 = [$$
 5, 3, $\bigcirc 6$, 1 , 2 $]$

Mark only one oval.

- [3, 6]
- [3, 6, 2]
- [5, 3, 1, 2]
- 7. What are the context words associated with the center word 1?

1 point

$$\mathcal{D}_2 = [$$
 5, 3, 6, \bigcirc , 2 $]$

Mark only one oval.

- [3, 6, 2]
- [6, 2]
- <u>[2]</u>

8. What are the context words associated with the center word 2?

1 point

$$\mathcal{D}_2 = [\ ext{5, 3, 6, 1, 2}]$$

Mark only one oval.

- **(** [6, 1]
- [3, 6, 1]
- [5, 3, 6, 1]
- **9.** What is the sum of the total number of context words associated with each center word in document D₂?

Mark only one oval.

- 12
- 9
- 14
- 10. What is the sum of the total number of context words associated with each center 2 points word in document D_2 , as a function of n_2 (the length of document D_2)? (with the assumption $n_2 >= 4$.

$$\mathcal{D}_2 = \ [w_2^1, w_2^2, \dots, w_2^t, \dots, w_2^{n_2-1}, w_2^{n_2}]$$

Mark only one oval.

- 10 + 4*(n_2 -4)
- 2*n_2 + 4
- 3*n_2 -1

31/05/2022, 19:46 Quiz 1: Coursework

11.	Any question?	

This content is neither created nor endorsed by Google.

Google Forms