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The Preprocessing Step

- * Indicates required question
- Please enter your name: * 1.

Preprocessing the data

Let us consider the following corpus

Raw Corpus

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

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

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

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

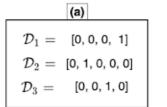
Models

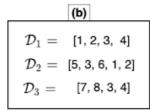
:8}

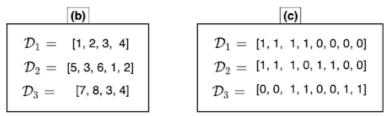
1 point

- [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 of 1 point 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

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

1 point

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

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

$$\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

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

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 $]$

- [3, 6, 2]
- [6, 2]
- **[2]**

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

1 point

$$\mathcal{D}_2 = [\ \mathtt{5}\ ,\ \mathtt{3}\ ,\ \mathtt{6}\ ,\ \mathtt{1}\ ,\ {f 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 D_2 ?

Mark only one oval.

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

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

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

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