31/05/2022, 04:57 Quiz 2: Coursework

Ouiz 2: Coursework Creating the training dataset

*Required

Please enter your name: *

The dataset

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, 04:57 Quiz 2: Coursework

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

Word2idx = { Neural : 1,

Networks : 2,

are : 3,

awesome : 4,

LSTMs : 5,

Sequential: 6,

Attention : 7,

Models : 8 }

The positive batch

Let us consider the processed document 2 and the center word 6.

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

2. Which of these answers represent the positive batch?

(a)	(b)	(c)
(6, 5)	(3, 5)	(5, 6)
(6, 3)	(6, 2)	(3, 6)
(6, 1)	(5, 1)	(1, 6)
(6, 2)	(6, 2)	(2, 6)
		I

Mark only one oval.

- (a)
- (b)
- (c)
- **3**. Why do we call the elements of the positive batch "the true couples"?

1 point

Mark only one oval.

- Because they correspond to couples (center_word, context_word) that exist in the corpus
- Because they correspond to couples (context_word, center_word) that exist in the corpus
- I have no idea
- 4. The "true couples" composing the positive batch are associated with the label

1 point

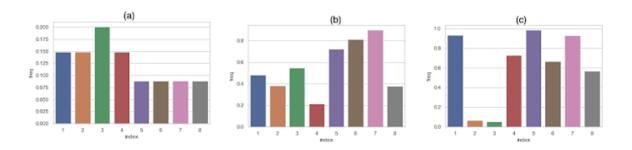
Mark only one oval.

- \bigcirc 0

The negative batch

31/05/2022, 04:57 Quiz 2: Coursework

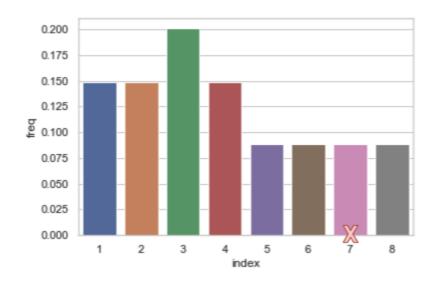
5. Which figure represents the negative sampling distribution associated with the corpus (of 3 2 points documents)?



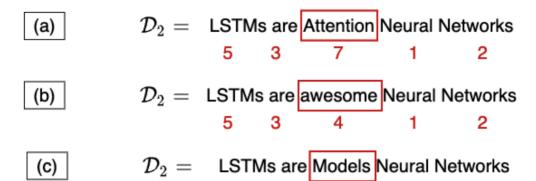
Mark only one oval.

- (a)
- (b)
- (c)

By sampling a fake center word using the negative sampling distribution, we obtained the index 7.



6. What is the raw document associated with the fake center word that we have just sampled 1 point from the negative sampling distribution?



Mark only one oval.

- (a)
- (b)
- (c)
- 7. The document created by replacing the true center word by the fake center word sampled using the negative sampling distribution) is very likely to be incoherent.

Mark only one oval.

- True
- False

(a)	(b)	(c)
(7, 5)	(3, 5)	(5, 7)
(7, 3)	(6, 2)	(3, 7)
(7, 1)	(5, 1)	(1, 7)
(7, 2)	(6, 2)	(2, 7)

Mark only one oval.

- Why do we call the elements of the negative batch "the fake couples"?

1 point

Mark only one oval.

- Because they correspond to couples of (fake center word, context word) that don't exist in the corpus (with very high probability)
- Because they correspond to couples of (context word, fake center word) that don't exist in the corpus (with very high probability)
- I have no idea
- 10. The "fake couples" composing the negative batch are associated with the label

Mark only one oval.

1 point

31/05/2022, 04:57 Quiz 2: Coursework

11.	Any question ?

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