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TO PASS 80% or higher

PRACTICE QUIZ • 30 MIN

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GRADE
100%

Quiz: Information Extraction with NLP

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TOTAL POINTS 10

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1. Which of the following is not true about BERT's inner word representations? **1 / 1 point**

- (•) Each unique word can have exactly one vector representation
- ( ) The representation of a word depends on the words around it
- ( ) Words which are similar in meaning are typically close as vector
- ( ) None of the above

Grade
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Correct

Explanation: Unlike typical word vectors, BERT uses contextualized word vectors. Therefore, since a given word's vector depends on the other vectors around it, it in general can correspond to representations. This affords BERT more flexibility, which contributes to its power.

2. True or False: the start and end vectors are fixed throughout training **1 / 1 point**

- ( ) True
- (•) False

Correct

Explanation: This is false. The start and end vectors, which we dot product with our word vectors to get start and end scores, are in fact learned as well during training. They are fixed at test time, however.

3. Which of the following is a difference between BERT and LSTM models? **1 / 1 point**

- ( ) BERT can be trained on multiple languages, while LSTMs cannot
- ( ) BERT is trained using backpropagation while LSTMs are not
- (•) BERT takes entire sequences as input, while LSTM models process words one by one
- ( ) BERT uses regular word vectors, while LSTMs use contextualized word vectors

Correct

Explanation: A major difference between BERT and LSTMs is that BERT process an entire sequence of input, while LSTMs only in words one by one. This enables greater parallelization and results in better training among a variety of tasks.

4. Given the following word vectors and start and end vectors, determine the start and end of the sequence of interest. **1 / 1 point**

The	0.1	-0.1
BRCA1	0.25	0.05
gene	-0.3	-0.4
is	-0.2	0.25
associated	-0.5	0.01

S	1	0
E	0	1