

START OF QUIZ

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Question 1

Topic: Lecture 6

Source: Lecture 6

What is the purpose of negative sampling in a Word2Vec model? (1)

Question 2

Topic: Lecture 8

Source: Lecture 8

Do you think we could use word embeddings for coreference resolution? What kind of assumptions would we be making, and why do you think it might still be a very difficult task?
(2)

Question 3

Topic: Lecture 5

Source: Lecture 5

What is PMI measuring? That is, what does it mean for two words to have high PMI? (1)

Question 4

Topic: Lecture 6

Source: Lecture 6

Think back to week 1 of this block when we were doing word sense disambiguation. Do you think there would be benefits to disambiguating all words before running word2vec? Explain. (2)

Question 5

Topic: Lecture 8

Source: Lecture 8

Describe a Discourse Unit. (1)

Question 6

Topic: Lecture 7

Source: Lecture 7

Why are we interested in backward-facing centers (Cb). Why not just consider the entities in the current sentence? (1)

Question 7

Topic: Lecture 5

Source: Lecture 5

When we were calculating PMI of a symmetric matrix, why is it not a case of double counting the word in our document? ie., why do the counts of (attorney, fun) and (fun, attorney) not count as two counts each of attorney and fun (such as when we are calculating the total sum of the matrix? (2)

Question 8

Topic: Lecture 7

Source: Lecture 7

What is the difference between coherence and cohesion? (1)

Question 9

Topic: Coding

Source: Coding

Write a short function that tries to find a good value for k in truncated SVD. You'll essentially be writing your own version of the evaluate word analogies function. For each of our the analogies, you'll need to do the vector math we were doing in the capital city determination, and return the 1-closest vector - if it's what we're looking for, it's correct. If not, it's wrong. (3)

END OF QUIZ