

START OF QUIZ

Student ID:

31181845, Yuan, Su

Question 1

Topic: Lecture 7

Source: Lecture 7

Describe epenthesis in terms of edit actions. (1)

Question 2

Topic: Lecture 5

Source: Lecture 5

Imagine that we wanted to create POS embeddings in the same way that we create word embeddings. Explain one way that it would be very similar to word embeddings, and one that it would be very different. (1)

Question 3

Topic: Lecture 5

Source: Lecture 5

Why is a majority tagger such a strong baseline for POS tagging? (1)

Question 4

Topic: Lecture 6

Source: Lecture 6

Explain how an MSD differs from a POS tag, and how it's similar. (1)

Question 5

Topic: Lecture 6

Source: Lecture 6

Would F1 score be an appropriate measure for gauging the quality of a morphological analyzer? Explain why or why not. (1)

Question 6

Topic: Lecture 8

Source: Lecture 8

Imagine we have a good neural morphological analyzer, and we want to inject the knowledge into a larger NLP DL model (like an LLM, etc.). How might we do so in an efficient way? (2)

Question 7

Topic: Lecture 7

Source: Lecture 7

What benefits might encoding MSDs with a second encoder have over a single encoder approach? Can you think of any disadvantages? (2)

Question 8

Topic: Lecture 8

Source: Lecture 8

Imagine we were designing a probe to understand whether a model were gender biased. How might we design such a probe, and if we found the model to exhibit such a bias, what suggestions would you make to neutralize the bias? (2)

Question 9

Topic: Long

Source: Lecture 6

Linguistic determinism is the (somewhat outdated, and originally quite racist) idea that the language we speak shapes the way that we see the world. Although it's been shown to only have a small influence on humans (called weak determinism), there haven't really been many studies that look into it in machines. However, given that our methodologies are so heavily influenced by embedding spaces, we can say that modern ML models are entirely shaped by the language they speak (the language here being the constraints of the embedding space). If we had a well-annotated morphological corpus, how might we set up an experiment to test this theory? (3)

END OF QUIZ