

Grade received 100% To pass 80% or higher

Go to next item

1 / 1 point

- ✔ Correct
Correct

1 / 1 point

- Correct
Correct

1 / 1 point

← Back

Part of Speech Tagging

Practice Quiz • 30 min • 8 total points

✓ Correct
Correct.

8. Which of the following are useful for applications for parts of speech tagging?

1 / 1 point

☐ Sentiment Analysis

☒ Speech recognition

✓ Correct
Correct.

☒ Coreference Resolution

✓ Correct
Correct.

☒ Named Entity Recognition

✓ Correct
Correct.

6. Given the following D matrix, what would be the sequence of tags for the words on the right?

1 / 1 point

$$D = \begin{array}{c|ccccc} & w_1 & w_2 & w_3 & w_4 & w_5 \\ \hline t_1 & 0 & 1 & 3 & 2 & 3 \\ t_2 & 0 & 2 & 4 & 1 & 3 \\ t_3 & 0 & 2 & 4 & 1 & 4 \\ t_4 & 0 & 4 & 4 & 3 & 1 \end{array}$$

$$s = \underset{i}{\operatorname{argmax}} c_{i,K} = 1$$

<S> w1 w2 w3 w4 w5

- ☐ t_3, t_4, t_2, t_2, t_1
- ☒ t_2, t_3, t_1, t_3, t_1
- ☐ t_1, t_3, t_1, t_2, t_1
- ☐ t_3, t_4, t_2, t_3, t_1

✓ Correct
Correct

7. Previously, we have been multiplying the raw probabilities, but in reality we take the log of those probabilities. Why might that be the case?

1 / 1 point

- ☒ We take the log probabilities because probabilities are bounded between 0 and 1 and as a result, the numbers could be too small and will go towards 0.
- ☐ The log probabilities should not be used because they introduce noise to our original computed scores.
- ☐ The log probabilities help us with the inference as they bound the numbers between -1 and 1.

1 / 1 point

- ✔ Correct!
- It is the row sum that has to be 1.

1 / 1 point

- ✔ Correct
Correct.

1 / 1 point

- Correct
Correct

- Correct