Part of Speech Tagging
Practice Quiz • 30 min • 8 total points ⊕ English ∨

Lecture: Part of Speech Tagging Lecture Notes (Optional) **Practice Quiz** Practice Quiz: Part of Speech Tagging Started

Assignment: Part of Speech Tagging

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Congratulations! You passed! Go to next item Part of Speech Tagging **Grade received** 87.50% **To pass** 80% or higher Submit your assignment 1. The Transition matrix A defined in lecture allows you to: 1/1 point Compute the probability of going from a part of speech tag to another part of speech tag. Ocompute the probability of going from a word to another word. Receive grade O Compute the probability of going from a word to a part of speech tag. To Pass 80% or higher O Compute the probability of going from a part of speech tag to a word. **⊘** Correct Correct. riangle Like riangle Dislike riangle Report an issue 2. The Emission matrix B defined in lecture allows you to: 1/1 point Ocompute the probability of going from a word to a part of speech tag. Compute the probability of going from a part of speech tag to a word. O Compute the probability of going from a part of speech tag to another part of speech tag. O Compute the probability of going from a word to another word. **⊘** Correct Correct. 3. The column sum of the emission matrix has to be equal to 1. 1/1 point O True. False. **⊘** Correct It is the row sum that has to be 1. **4.** The row sum of the transition matrix has to be 1. 1 / 1 point True False, it has to be the column sum. **⊘** Correct Correct. 5. Why is smoothing usually applied? Select all that apply. 0.25 / 1 point Applying smoothing, for the majority of cases, allows us to decrease the probabilities in the transition and emission matrices and this allows us to have non zero probabilities. Applying smoothing, for the majority of cases, allows us to increase the probabilities in the transition and emission matrices and this allows us to have non zero probabilities. igotimes This should not be selected Incorrect. In general, you are decreasing every entry's number by a little bit so that the 0 probabilities will be non zero. This is assuming there are more non zero entries which is usually the case. Applying smoothing, for the minority of cases, allows us to increase the probabilities in the transition and emission matrices and this allows us to have non zero probabilities. Applying smoothing is a bad idea and we should not use it. 6. Given the following D matrix, what would be the sequence of tags for the words on the right? 1/1 point <s> w1 w2 w3 w4 w5 $D=oxed{t_{_2}}$ 0 2 4 1 3 $s = \operatorname*{argmax}_{i} c_{i,K} = 1$ $\bigcirc \ t_1,t_3,t_1,t_2,t_1$ $\bigcirc \ t_3,t_4,t_2,t_3,t_1$ $\bigcirc \ t_3,t_4,t_2,t_2,t_1$ **⊘** Correct Correct

7. Previously, we have been multiplying the raw probabilities, but in reality we take the log of those probabilities. 1/1 point Why might that be the case? 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. O Because the log probabilities force the numbers to be between 0 and 1 and hence, we want to take a probability. **⊘** Correct Correct. 8. Which of the following are useful for applications for parts of speech tagging? 0.75 / 1 point Speech recognition

Correct. ☐ Coreference Resolution Sentiment Analysis You didn't select all the correct answers

⊘ Correct

⊘ Correct

Correct.

✓ Named Entity Recognition

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