Congratulations! You passed!

Grade received 100% To pass 80% or higher

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Total points 8

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.
- ( ) Compute the probability of going from a word to another word.

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( ) Compute the probability of going from a part of speech tag to a word.

Correct
Correct.

2. The Emission matrix B defined in lecture allows you to: 1 / 1 point

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- ( ) Compute the probability of going from a word to another word.
- (•) Compute the probability of going from a part of speech tag to a word.
- ( ) Compute the probability of going from a word to a part of speech tag.

Correct
Correct.

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3. The column sum of the emission matrix has to be equal to 1. 1 / 1 point

- ( ) True.
- (•) False.

Correct

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4. The row sum of the transition matrix has to be 1. 1 / 1 point

- ( ) False, it has to be the column sum.
- (•) True

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5. Why is smoothing usually applied? Select all that apply. 1 / 1 point

- [ ] 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.
- [x] 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

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Correct
Correct.

- [ ] Applying smoothing is a bad idea and we should not use it.
- [x] 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.

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6. Given the following D matrix, what would be the sequence of tags for the words on the right? 1 / 1 point

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	w_1	w_2	w_3	w_4	w_5
t_3	0	2	4	1	4
t_4	0	4	4	3	1

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

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( ) t_3, t_4, t_2, t_3, t_1

- ( ) t_1, t_3, t_1, t_2, t_1
- ( ) t_3, t_4, t_2, t_2, t_1

Correct
Correct

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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

- ( ) The log probabilities should not be used because they introduce noise to our original computed scores.
- (•) 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.
- ( ) Because the log probabilities force the numbers to be between 0 and 1 and hence, we want to take a probability.

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Correct
Correct.

8. Which of the following are useful for applications for parts of speech tagging? 1 / 1 point

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Correct.

- [x] Speech recognition

Correct
Correct.

- [x] Named Entity Recognition

Correct
Correct.

- [ ] Sentiment Analysis