

Congratulations! You passed!

Grade received 100% To pass 80% or higher

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Autocomplete

Total points 10

1. Corpus: "In every place of great resort the monster was the fashion. They sang of it in the cafes, ridiculed it in the papers, and represented it on the stage." (Jules Verne, Twenty Thousand Leagues under the Sea) In the context of our corpus, what is the probability of word "papers" following the phrase "it in the". P(papers it in the) = 0 P(papers it in the) = 1 P(papers it in the) = 2/3 P(papers it in the) = 1/2	/ 1 point
 P(papers it in the) = 0 P(papers it in the) = 1 P(papers it in the) = 2/3 	1 point
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$\bigcap P(papers it in the) = 2/3$	1 point
	1 point
P(papers it in the) = 1/2	1 point
$P(Mary)=0.1; \qquad P(likes)=0.2; P(cats)=0.3 . P(Mary likes)=0.2; P(likes Mary)=0.3; P(cats likes)=0.1; P(likes cats)=0.4$	
Approximate the probability of the following sentence with bigrams: "Mary likes cats"	
O P(Mary likes cats) =1	
P(Mary likes cats) = 0.003	
O P(Mary likes cats) = 0.008	
P(Mary likes cats) = 0	
3. Given these conditional probabilities	/ 1 point
P(Mary)=0.1; P(likes)=0.2; P(cats)=0.3	
P(Mary <s>)=0.2; P(</s> cats)=0.6	
P(likes Mary) =0.3; P(cats likes)=0.1	
Approximate the probability of the following sentence with bigrams: " <s> Mary likes cats </s> "	
P(<s> Mary likes cats </s>) = 0.0036	
P(<s> Mary likes cats </s>) = 0	
P(<s> Mary likes cats </s>) = 0.003	
$\bigcirc P(Mary likes cats) = 1$	

 $\textbf{4.} \quad \text{Given the logarithm of these conditional probabilities:} \\$

1/1 point

 $log(P(Mary|<\!\!s>)) = -2; \quad log(P(<\!/s\!\!>|cats)) = -1$

	Approximate the log probability of the following sentence with bigrams: " <s> Mary likes cats </s> " log(P(<s> Mary likes cats </s>)) = -113 log(P(<s> Mary likes cats </s>)) = 2000 log(P(<s> Mary likes cats </s>)) = 113 log(P(<s> Mary likes cats </s>)) = -112 Correct Correct	
5.	Given the logarithm of these conditional probabilities: $log(P(Mary))=-2; log(P(cats))=-1 \\ log(P(likes Mary))=-10; log(P(cats likes))=-100$	1/1 point
	Assuming our test set is W=" <s> Mary likes cats </s> ", what is the model's perplexity. $ \log PP(W) = -113 $ $ \log PP(W) = (-1/5)^*(-113) $ $ \log PP(W) = (-1/4)^*(-113) $ $ \log PP(W) = (-1/5)^*113 $	
6.	 Correct Correct. Given the training corpus and minimum word frequency=2, how would the vocabulary for corpus preprocessed with <unk> look like?</unk> "<s> I am happy I am learning </s> <s> I am happy I can study </s>" V = (I,am,happy,I,am) V = (I,am,happy) V = (I,am,happy,learning,can,study,<unk>)</unk> 	1/1 point
7.	 V = (I,am,happy,learning,can,study) ✓ Correct Correct Corpus: "I am happy I am learning" In the context of our corpus, what is the estimated probability of word "can" following the word "I" using the bigram model and add-k-smoothing where k=3. P(can I) = 1 P(can I) = 3/(2+3*4) 	1/1 point
8.	 ✓ Correct Correct. Which of the following are applications of n-gram language models? ✓ Speech recognitions ✓ Correct Correct Auto-complete 	1 / 1 point

 ✓ Correct ✓ Correct Correct Augmentative communication ✓ Correct Correct Sentiment Analysis False True Correct True Correct True Correct Correct Correct Correct Correct Correct Correct False O correct Correct 			
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Correct ✓ Augmentative communication ✓ correct Correct Sentiment Analysis 9. The higher the perplexity score the more our corpus will make sense. 1/1 False True ✓ Correct Correct. 10. The perplexity score increases as we increase the number of <unk> tokens. 1/1 False. ✓ Correct</unk>		✓ Auto-correct	
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Correct Sentiment Analysis 9. The higher the perplexity score the more our corpus will make sense. 1/1 False True Correct Correct. 10. The perplexity score increases as we increase the number of <unk> tokens. 1/1 True. False. Correct</unk>		Augmentative communication	
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