Congratulations! You passed!

Grade received 100% To pass 80% or higher

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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)	1 / 1 point
	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	
	O P(papers it in the) =1	
	O P(papers it in the) = 2/3	
	P(papers it in the) = 1/2	
2.	Given these conditional probabilities	1/1 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	
	O P(Mary likes cats) = 0	
	● P(Mary likes cats) = 0.003	
	O P(Mary likes cats) = 0.008	
3.	Given these conditional probabilities	1/1 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>) = 1	
	$ \bigcirc P(\langle s \rangle \text{ Mary likes cats } \langle s \rangle) = 0 $	
	P(<s> Mary likes cats </s>) = 0.0036	
	O P(<s> Mary likes cats </s>) = 0.003	
	⟨ Correct	
4.	Given the logarithm of these conditional probabilities:	1/1 point
	log(P(Mary <s>))=-2; log(P(</s> cats))=-1	
	log(P(likes Mary)) = -10; $log(P(cats likes)) = -100$	
	Approximate the log probability of the following sentence with bigrams : " <s> Mary likes cats </s> "	
	O log(P(<s> Mary likes cats </s>)) = 2000	
	⊙ Correct	
	Correct	

5. Given the logarithm of these conditional probabilities: $log(P(Marv|<s>))=-2; \qquad log(P(</s>|cats))=-1$

1 / 1 point

	log(P(likes Mary)) =-10; log(P(cats likes))=-100	
	Assuming our test set is W=" <s> Mary likes cats </s> ", what is the model's perplexity.	
	O log PP(W) = -113	
	$ \log PP(W) = (-1/5)^*(-113) $	
	log PP(W) = $(-1/4)^*(-113)$	
	O $\log PP(W) = (-1/5)^*113$	
6.	Given the training corpus and minimum word frequency=2, how would the vocabulary for corpus preprocessed with <unk> look like?</unk>	1 / 1 point
	" <s>I am happy I am learning </s> <s> I am happy I can study </s> "	
	● V = (I,am,happy)	
	V = (I,am,happy,learning,can,study)	
	V = (I,am,happy,learning,can,study, <unk>)</unk>	
	V = (I,am,happy,I,am)	
	concer	
7.	Corpus: "I am happy I am learning"	1/1 point
	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.	1/1point
	P(can I) = 0	
	O P(can I) =1	
	\bigcirc P(can I) = 3/(3*4)	
	⊙ Correct	
	Correct.	
۰	Which of the following are applications of n-gram language models?	
٥.	which of the following are applications of high an language models:	1/1 point
	✓ Speech recognitions ✓ Correct	
	Correct	
	☑ Auto-complete	
	✓ Auto-correct	
	Augmentative communication	
	Sentiment Analysis	
9.	The higher the perplexity score the more our corpus will make sense.	1/1 point
		-1 - F
	False	
	O True	
	○ Correct Correct.	

10.	The perplexity score increases as we increase the number of <unk> tokens.</unk>	1/1po
	○ True.	
	False.	