다음 항목으로 이동

 Consider using this encoder-decoder model for machine translation. 1/1점 $\alpha^{<0>} + \bigcap_{\chi < 1>} \bigcap_{\chi < T_{\ell}>} \bigcap_{\chi < T_{\ell}>$ True/False: This model is a "conditional language model" in the sense that the decoder portion (shown in purple) is modeling the probability of the output sentence y given the input sentence x. False ₹ 덕보기 $\textbf{2.} \quad \text{In beam search, if you increase the beam width B, which of the following would you expect to be true? Check all} \\$ 1/1정 Beam search will use up more memory. Beam search will run more slowly. Beam search will converge after fewer steps. raketimes Beam search will generally find better solutions (i.e. do a better job maximizing $P(y\mid x)$) ∠^ 터보기 3. In machine translation, if we carry out beam search without using sentence normalization, the algorithm will tend to output overly short translations. 1/1점 ○ False True ∠ 전보기 ⊘ 맞습니다 4. Suppose you are building a speech recognition system, which uses an RNN model to map from audio clip x to a text transcript y. Your algorithm uses beam search to try to find the value of y that maximizes $P(y\mid x)$. 1/1정 On a dev set example, given an input audio clip, your algorithm outputs the transcript $\hat{y}=$ "I'm building an A Eye system in Silly con Valley.", whereas a human gives a much superior transcript $y^*=$ "I'm building an AI system in Silicon Valley." According to your model, $P(\hat{y}\mid x) = 7.21{*}10^{-8}$ $P(y^* \mid x) = 1.09*10^{-7}$ Would you expect increasing the beam width ${\cal B}$ to help correct this example? Yes, because $P(y^*\mid x)>P(\hat{y}\mid x)$ indicates the error should be attributed to the RNN rather than to the search algorithm. $\ \ \,$ Yes, because $P(y^*\mid x)>P(\bar{y}\mid x)$ indicates the error should be attributed to the search algorithm rather than to the RNN. No, because $P(y^* \mid x) > P(\hat{y} \mid x)$ indicates the error should be attributed to the RNN rather than to the reach algorithm. O No, because $P(y^* \mid x) > P(\hat{y} \mid x)$ indicates the error should be attributed to the search algorithm rather than the RNN. ∠^ 터보기 \odot Staulth $P(y^* \mid x) > P(\hat{y} \mid x)$ indicates the error should be attributed to the search algorithm rather than to the RNN. Increasing the beam width will generally allow beam search to find better solutions. 5. Continuing the example from Q4, suppose you work on your algorithm for a few more weeks, and now find that for the vast majority of examples on which your algorithm makes a mistake, $P(y^*\mid x)>P(\hat{y}\mid x)$. This suggests you should focus your attention on improving the RNN. 1/1정 False ○ True

∠^ 터보기

 \bigcirc ଅଧ୍ୟୟ $P(y^*\mid x)>P(\hat{y}\mid x)$ indicates the error should be attributed to the search algorithm rather than to the RNN.



② 吳白니다 Target labels indicate whether or not a trigger word has been said.