032-333 (WK-05) Question-Answering
Stanford Attentive Reader!
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10
Encoder!
(Bi-LSTM)
12 toxt
Apply encoding to context
$p = \{\rho_1, \rho_2, \dots, \rho_n\}$ through a
bi-LSTM network.
3
h -> hidden size.
$4 \rightarrow 1$
$\frac{1}{h_i} = LSTm(\vec{h}_{i-1}, p_i), \vec{c} = L, -, w$
hi = LSTm (hi), i= 17, -,
$\frac{1}{6}$
and $\beta_i = concat(h_i, h_i) e ph$
Where $h = 2h$

The resulting forward and ofp vectors Hp = (hp); I and Hp = {(hp); ? are 2 Concaterated mits a final paroy anthe representation (He): = (He): Each of veeter is chosen to be m Concateration is in R 2h (Ph)

Arother (bi-1stM or bi-67Ru) question sequence $q = \{q_1, q_2, q_m\}$ Into hy = (hym, hym) 2 Hav is computationally cheeper " All of the of states are used in only the final states are used in question representation.

Attention: In this step, goal is to - word compare the question embedding and all the contextual (passe) embeddings, and select the sieses of information that are relevant to the question. Computation of a proportiety distribution & depending on the Legree of relevance & W word pi and question q and then Produce an of vertor o which is contextual embeddings (Pi):

Y = softmax; 2 TWs pi = softmax (2TW/Ha) o = Si xi pi We Elhah is a bilinear term which allows to compute a similarity of and po more Hexisty than with just dot product; Prediction: Oxing the off hector of the system outputs the most likely answer using. isting:

a = argmax Wato

finally, the system adds a softman In on top of Wa'd and adopts a pregative leg-likelihood objective