

Congratulations! You passed!

Grade received 100% Latest Submission Grade 100% To pass 80% or higher

Go to next item

Attention mechanism.

✓ Correct

Convolutional Neural Network style of processing.

✓ Correct

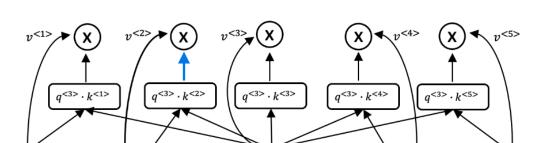
None of these.

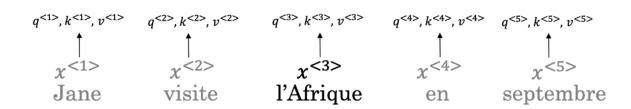


Great, you got all the right answers.

3. The concept of Self-Attention is that:

1/1 point





- Given a word, its neighbouring words are used to compute its context by selecting the lowest of those word values to map the Attention related to that given word.
- Given a word, its neighbouring words are used to compute its context by taking the average of those word values to map the Attention related to that given word.
- Given a word, its neighbouring words are used to compute its context by summing up the word values to map the Attention related to that given word.
- Given a word, its neighbouring words are used to compute its context by selecting the highest of those word values to map the Attention related to that given word.



⊘ Correct

4. Which of the following correctly represents Attention?



- $\bigcirc Attention(Q, K, V) = softmax(\frac{QV^T}{\sqrt{d_t}})K$



✓ Correct

5. Are the following statements true regarding Query (Q), Key (K) and Value (V)?

1/1 point

1/1 point

Q = interesting questions about the words in a sentence

K = qualities of words given a Q

V = specific representations of words given a Q

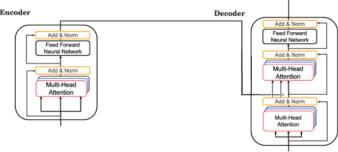
- False
- True

∠⁷ Expand

✓ Correct

Q = interesting questions about the words in a sentence, K = qualities of words given a Q, V = specific representations of words given a Q

i here represents the computed attention weight matrix associated with the ith "head" (sequence). ○ False True ∠⁷ Expand **⊘** Correct \$ here represents the computed attention weight matrix associated with the ith "head" (sequence). 7. Following is the architecture within a Transformer Network (without displaying positional encoding and output layers(s)). 1/1 point Decoder What is generated from the output of the Decoder's first block of Multi-Head Attention? (Q O V ∠⁷ Expand This first block's output is used to generate the Q matrix for the next Multi-Head Attention block. 8. Following is the architecture within a Transformer Network (without displaying positional encoding and output layers(s)). 1/1 point Encoder Decoder



| Correct The output of the decoder block contains a linear layer followed by a softmax layer to predict the next word one word at a time. Why is positional encoding important in the translation process? (Check all that apply) Position and word order are essential in sentence construction of any language. Correct The degree to locate every word within a sentence. The flegs to locate every word within a sentence. The suced in CNN and words well there. Providing entry information to our model. Correct If it should output a unique encoding for each time-steps loved's position in a sentence). Correct The degree to each time-steps should be consistent for all sentence lengths. Correct The degree to each time-steps should be consistent for all sentence lengths. Correct The degree these any two time-steps should be consistent for all sentence lengths. Correct The degree these and the right answers. | | False | |
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