

CSE556: NLPQuiz - 4

Duration: 10 mins

Total marks: 10

1. Named Entity Recognition can not be modelled as a
 - a. Sequence labelling problem
 - b. Sequence transformer problem
 - c. It can be modelled as either a or b.**
 - d. I don't know

2. Identify Name, Location or Organization in the following sentence and annotate them with BIO encoding. Note: For simplicity, omit all punctuation marks.

Sachin, Sourav and Rahul Dravid scored centuries in the first test.

Sachin_B Sourav_B and_O Rahul_B Dravid_I scored_O centuries_O in_O the_O first_O test_O

3. What was the most fundamental objective of the "Attention is all you need" paper?
 - a. To achieve better performance
 - b. To compute self attention
 - c. To achieve parallelization in computation**
 - d. To avoid vanishing gradient problem
 - e. To avoid exploding gradient problem
 - f. All of the above (a, b, c, d, & e)
 - g. None of the above (a, b, c, d, & e)

4. Earley, CYK and Malt parser are for:
 - a. Constituency-TOP-DOWN, Constituency-BOTTOM-UP, Dependency-TOP-DOWN
 - b. Constituency-TOP-DOWN, Constituency-BOTTOM-UP, Dependency-BOTTOM-UP**
 - c. Dependency-TOP-DOWN, Constituency-TOP-DOWN, Constituency-BOTTOM-UP
 - d. Constituency-TOP-DOWN, Dependency-TOP-DOWN, Constituency-BOTTOM-UP
 - e. Dependency-BOTTOM-UP, Constituency-BOTTOM-UP, Constituency-TOP-DOWN
 - f. Constituency-BOTTOM-UP, Dependency-BOTTOM-UP, Constituency-TOP-DOWN

5. Let the vocabulary size for the source and target languages are V_1 and V_2 , respectively. Moreover, consider you have sentences with max-length 10 at the source side and max-length 20 at the target side. In a naive encoder-decoder paradigm, what would the dimension of each output be at the decoder side?

Ans: V_2 - one neuron for each word in the vocabulary