

Introduction to machine translation

Quiz, 4 questions

✓ **Congratulations! You passed!**

Next Item



1 / 1
points

1.

Find correct statements below.



"Interlingual" level of transfer provides the best accuracy in statistical machine translation systems.



Un-selected is correct



Evaluation in Machine Translation is hard, mostly because of many variations in translations.



Correct



Machine Translation area was developing with gradual advances each year.



Un-selected is correct



Neural Machine Translation is able to produce translations for language pairs that have never been observed in train.



Correct



Recent machine translation systems provide equally good quality for all language pairs.



Un-selected is correct



points

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Compute BLEU score for the following example with 2 digits after decimal point:

System output: *A friend when needed is a friend indeed.*

Reference: *A friend in need is a friend indeed.*

Correct Response

1 / 1
points

3.

Let us say we are building a translation system from Greek (g) to Bulgarian (b). Which of the following statements are correct?



The noisy channel concept here corresponds to conditional distribution $p(g|b)$.

Correct



We will need to build a translation model $p(b|g)$.

Un-selected is correct



Language model here is complicated because different word alignments are possible.

Un-selected is correct



We will need to build language model $p(b)$.

Correct



points

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Which parametrization for word alignment model would you use, if you know that the source and the target languages are extremely different and have quite irregular word order?

Notation: (e, f) - sentence pair, (I, J) - their lengths respectively, a - alignment.



Option 1: $p(f, a|e) = p(J|e) \prod_{j=1}^J p(a_j)p(f_j|a_j, e)$



Correct



Option 2: $p(f, a|e) = p(J|e) \prod_{j=1}^J p(a_j|j, I, J)p(f_j|a_j, e)$



Option 3: $p(f, a|e) = p(J|e) \prod_{j=1}^J p(a_j|a_{j-1}, I, J)p(f_j|a_j, e)$

