

E0 334 - Deep Learning for NLP

Assignment 2

(due by 20th Sept, 09:59 PM)

Note: Use the following link for submitting your results of Assignment 2.

<https://forms.office.com/r/jCBdVXi2Fj>

Problems:

In this assignment, we will study the use of attention mechanism ([1], [2]) to translate human readable dates to machine readable dates. The training dataset consisting of 36,000 examples is provided ('Assignment2_train.txt'). Report your results on the validation set ('Assignment2_validation.txt') using the form mentioned above.

Consider the tasks of translating “Saturday 29 February 2021” to “2021-02-29” and “29 February 2020” to “2020-02-29”. For these examples, visualize the parts of the input to which every output pays attention to, while doing the translation using the trained model.

References

1. Bahadanau *et al*, Neural Machine Translation by Jointly Learning to Align and Translate. (<https://arxiv.org/pdf/1409.0473.pdf>)
2. Luong *et al*, Effective Approaches to Attention-based Neural Machine Translation. (<https://arxiv.org/pdf/1508.04025>)