E0 334 - Deep Learning for NLP

Assignment 4

(Part (a) due by 27th Sept, 11:59 PM), (Part (b) due by 4th Oct, 11:59 PM)

Note: Use the following links for submitting your results of Assignment 4.

For Part (a): `https://forms.office.com/r/vk9yFtkkz0`

For Part 2: `https://forms.office.com/r/`

Problems:

Part (a):

In this assignment, we will study the use of attention mechanism [1] to translate human readable dates to machine readable dates. You can use the encoder-decoder network proposed in [1] or its variants. The dataset consisting of $40,000$ examples is provided. Report your results 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". Visualize the parts of the input to which every output pays attention to, while doing the translation.

Part (b): The problem statement will be given shortly.

References

1. Bahdanau *et al*, Neural Machine Translation by Jointly Learning to Align and Translate. (`https://arxiv.org/pdf/1409.0473.pdf`)

2. Yang *et al*, Hierarchical Attention Networks for Document Classification. (`https://aclanthology.org/N16-1174.pdf`)