Semester Project – Weekly report 21/03 to 28/03

Title: Extending Dynamic Structure in Memory Network for Response Generation

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1. Goal of the passed week:

- 1. Think about ways to implement the encoder/decoder architecture in DMN
- 2. Familiar myself more with Theano
- 3. Search for dataset read info about the babi (6) dataset
- 4. Read the article: Learning End to End Goal oriented dialog

2. Work done & problems encountered::

I created an additional mode, minitest, which test for only one session and display the facts, the question and the response. Not really useful but I think it can help to see the progress of the sentence generation.

I modified the structure in order to generate multiple words. The number of words is a parameter right now, but I think this should be some conditional stuff. I tested it with task 14 and obviously, without the proper dataset, it only outputs multiple copy of the same word. Interestingly enough, YerevaNN didn't implemented that: the answer module only did one step. However, it is worth mentioning that it doesn't always improve the results.

I also read the dataset a bit, and as I told you, it doesn't look so well. Before using it, maybe we should add some token so the model know if it's its responses or user's sentences.

3. Potential goal for next week:

I don't really know where to go next. Maybe modify the dataset a bit and use it right away? I didn't modify the cost function, so this should probably be the way to go as well.

4. Note

This week will be intense, I have quizzes and due to personal engagment my week-end is full. I'll try to compensate.