



PROJECT

Translation From One Language to Another Language

A part of the Deep Learning Nanodegree Foundation Program

PROJECT REVIEW

CODE REVIEW

NOTES

SHARE YOUR ACCOMPLISHMENT!  

Meets Specifications

Awesome

You did really great! Congratulations!

Suggestion

If you want to improve the network, check the bidirectional RNNs:

https://www.tensorflow.org/versions/master/api_guides/python/contrib.rnn#Core_RNN_Cell_wrappers_RNNCells_that_wrap_other_RNNCells_There is a great article explaining the Google translate: <https://arxiv.org/abs/1609.08144>This video is suggested during the class but it is so good I have to suggest it again: https://www.youtube.com/watch?v=G5RY_SUjih4Here there is a great blog about RNN: <http://colah.github.io/posts/2015-08-Understanding-LSTMs/>I recommend checking the Google Python Style Guide, there are great tips about how to improve coding, in general: <https://google.github.io/styleguide/pyguide.html>

Required Files and Tests

The project submission contains the project notebook, called "dLnd_language_translation.ipynb".

All the unit tests in project have passed.

Awesome

You have passed all the unit tests! Congratulations!

Preprocessing

The function `text_to_ids` is implemented correctly.

Awesome

You did great here. Really neat!

Neural Network

The function `model_inputs` is implemented correctly.

The function `process_decoding_input` is implemented correctly.

Awesome

Great use of the tensorflow functions `tf.strided_slice`, `tf.concat` and `tf.fill`.

The function `encoding_layer` is implemented correctly.

Awesome

Dropout here really helps the network to improve. Nicely done!

The function `decoding_layer_train` is implemented correctly.

Suggestion

You could just include `tf.nn.rnn_cell.DropoutWrapper` in the end.

The function `decoding_layer_infer` is implemented correctly.

The function `decoding_layer` is implemented correctly.

Awesome

You did great! Here you could have used `dropout` in the `dec_cell` if you wanted.

The function `seq2seq_model` is implemented correctly.

Awesome

You really understood the seq2seq, congratulations!

Neural Network Training

The parameters are set to reasonable numbers.

Awesome

All the parameters are reasonable and got a fantastic result.

The project should end with a validation and test accuracy that is at least 90.00%

Awesome

Excellent performance!

Language Translation

The function `| sentence_to_seq |` is implemented correctly.

Awesome

Great that you used the [get method](#).

The project gets majority of the translation correctly. The translation doesn't have to be perfect.

Awesome

You did really great in the example sentence.

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