U D A C I T Y

Translation From One Language to Another Language

A part of the Deep Learning Nanodegree Foundation Program

PROJECT REVIEW

CODE REVIEW

NOTES

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Meets Specifications

Well Done !!! Congratulations on completing the project.

You can refer to this blog post to learn about attention mechanism in RNN networks. Please refer to this paper in order to gain more intuition about the hyperparameters.

All the best !!!

Required Files and Tests

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

All the unit tests in project have passed.

Preprocessing

The function `text_to_ids` is implemented correctly.

Neural Network

The function `model_inputs` is implemented correctly.

`model_inputs` provides the placeholder tensors required for the neural nets.

The function `process_decoding_input` is implemented correctly.

`process_decoding_input` correctly appends GO ID to the beginning of the batch. Good Job !!!

The function `encoding_layer` is implemented correctly.

Well Done !!! `encoding_layer` is correctly implemented. Also, you have used dropout too.

The function `decoding_layer_train` is implemented correctly.

The function `decoding_layer_infer` is implemented correctly.

The function `decoding_layer` is implemented correctly.

You have correctly used the context scope. You defined a scope during training and used the same variables from that scope during inference. This was tricky. Well Done !!!

The function `seq2seq_model` is implemented correctly.

Neural Network Training

The parameters are set to reasonable numbers.

The current hyperparameters give stellar results. However, you could have tried with a slightly higher learning rate and batch size. This way training could be a little faster. Also, the dropout could be increased by lowering `keep_probability' to 0.5.` num_layers` is good as more layers are not required for this problem.

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

Well Done !!! You have achieved great results in terms of accuracy.

Language Translation

The function `sentence_to_seq` is implemented correctly.

Good Job !!! `sentence_to_seq` correctly implements the conversion.

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

Well Done !!! The translation is almost perfect. The only place where the translation went off was the color of the truck. Awesome work !!!

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