UDACITY

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

Congratulations 👏🎉

You've passed this Project. However, there's always a room for little improvement.
Please go through my comments below and let me know what you think.
Keep up the good work 😄

Required Files and Tests

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

Awesome work!! You have nicely attached all the required files related to this project.

All the unit tests in project have passed.

Well done 👏
You passed all unit tests.

Preprocessing

The function `text_to_ids` is implemented correctly.

Neural Network

The function `model_inputs` is implemented correctly.

Nice work fixing `model_inputs` 👏

Important

As the instruction suggest `Max target sequence length tensor named "max_target_len"`. You forgot to name your `mar_target_len` placeholder.

Rest everything is fine 😄

The function `process_decoding_input` is implemented correctly.

The function `encoding_layer` is implemented correctly.

Awesome Job!! `encoding_layer` is implemented correctly.
To know more about LSTM and RNN, please follow following links (explained very clearly)
http://karpathy.github.io/2015/05/21/rnn-effectiveness/

The function `decoding_layer_train` is implemented correctly.

The function `decoding_layer_infer` is implemented correctly.

Amazing work! 😄

Some general Info

Inference is very different from training, here's a nice article from nvidia on inference vs training.
https://blogs.nvidia.com/blog/2016/08/22/difference-deep-learning-training-inference-ai/

The function `decoding_layer` is implemented correctly.

The function `seq2seq_model` is implemented correctly.

Nicely done! 👏
Here's an interesting blog post on sequence to sequence learning.
http://suriyadeepan.github.io/2016-12-31-practical-seq2seq/

Neural Network Training

The parameters are set to reasonable numbers.

Nice work optimizing the network parameters!

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

```
Epoch 9 Batch 267/269 - Train Accuracy: 0.9430, Validation Accuracy: 0.9247, Loss: 0.0597
```

All good here! 👍

Language Translation

The function `sentence_to_seq` is implemented correctly.

Flawless!

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

Awesome! 😄

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