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 have successfully completed this project! Great job with fixing the previous requirements.
I can tell that you spent a considerable time on this project, and you should be proud of the great outcome!

Required Files and Tests

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

All the unit tests in project have passed.

Good job passing all the unit tests!
This is good practice for Test Driven Development, where you write your tests out before you write the code, to make sure that your code behaves as you intend once you've written it! this is especially applicable in difficult programming exercises like this one, where a small syntax or mathematical error would be hard to find.

Preprocessing

The function `text_to_ids` is implemented correctly.

Good job! You correctly used the `source_vocab_to_int` and `target_vocab_to_int` dictionaries!

Suggestion

You can simplify this a bit by using list comprehension:

```
source_id_text = [
    [source_vocab_to_int[word] for word in sentence.split()] for sentence in source_text.split('\n')]
target_id_text = [
    [target_vocab_to_int[word] for word in sentence.split()]] for sentence + ' <EOS>' in target_text.split('\n')]
```

Neural Network

The function `model_inputs` is implemented correctly.

Awesome

Good job initializing the `input_` and `targets` to integers, and `learning_rate` and `keep_prob` to floats!

The function `process_decoding_input` is implemented correctly.

The function `encoding_layer` is implemented correctly.

The function `decoding_layer_train` is implemented correctly.

The function `decoding_layer_infer` is implemented correctly.

The function `decoding_layer` is implemented correctly.

The function `seq2seq_model` is implemented correctly.

Neural Network Training

The parameters are set to reasonable numbers.

Great job with the hyper parameters!

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

Language Translation

The function `sentence_to_seq` is implemented correctly.

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

DOWNLOAD PROJECT

RETURN TO PATH