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!

Requires Changes

4 SPECIFICATIONS REQUIRE CHANGES

Excellent implementation of your network! 😊 However, your hyperparameters need some work. I've included some suggestions to help you further. I've tested these suggestions on your own notebook and was able to get better results.

You only need to make a few small changes to your code so I'm confident that you will pass this project with your next submission 👍 Keep up the great work!

Required Files and Tests

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

All the unit tests in project have passed.

Great work, all the code runs well! 😎

Preprocessing

The function `text_to_ids` is implemented correctly.

Nice job preprocessing the words.

Neural Network

The function `model_inputs` is implemented correctly.

Nice job creating the placeholders.

The function `process_decoding_input` is implemented correctly.

👍

The function `encoding_layer` is implemented correctly.

Nice job stacking the BasicLSTMCells. I would strongly recommend to add a dropout to your implementation. Have a look at the tf.contrib.rnn.DropoutWrapper as is described in the project.

The function `decoding_layer_train` is implemented correctly.

Perfect.

The function `decoding_layer_infer` is implemented correctly.

Great job implementing `decoding_layer_infer`.

The function `decoding_layer` is implemented correctly.

Spot on!

The function `seq2seq_model` is implemented correctly.

Neural Network Training

The parameters are set to reasonable numbers.

Nice start tuning your hyperparameters! However, some values are a little bit off so I would ask you to fine-tune some more:

- The chosen value for `embedding_size` are too small. The number of unique words is the dataset is 227, try to make sure that (almost) all words can be included.
- Try increasing the `rnn_size` further (you might need to decrease your batch size if you get out of memory errors). Try values of 256 or 512.
- If possible try to fit a bigger batch size on your system.
- I would suggest to use a maximum of 10 epochs and a slightly larger learning rate (for example 0.005).
- After implementing a dropout as suggested above, I would set the `keep_prob` to a value around 0.5.

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

Let's see what happens after making the suggested changes.

Language Translation

The function `sentence_to_seq` is implemented correctly.

You forgot to lowercase the sentences, as is described in the project.

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

Most of the translations are too far off. Try to translate the sentences with Google Translate and see if the translations match. Let's see what happens when making the suggested changes above.

RESUBMIT

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Best practices for your project resubmission

Ben shares 5 helpful tips to get you through revising and resubmitting your project.

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