Machine Translation

REVIEW | CODE REVIEW | HISTORY

Meets Specifications

Congratulations on passing NLP Capstone project🎉

I can tell you take extra efforts to complete this project. Well done!

Hope you get deep understanding of NLP techniques from the program and will continue advancing your AI skills. Stay Udacious!

Submitted Files

The following files have been submitted: `helper.py`, `machine_translation.ipynb`, `machine_translation.html`

Preprocess

The function `tokenize` returns tokenized input and the tokenized class.

Good job implementing `tokenize` function that returns sequence and tokenizer 👍

The function `pad` returns padded input to the correct length.

Good job adding `pads` at the end of sequences 👍

Models

The function `simple_model` builds a basic RNN model.

Suggestion: you don't need to specifically set the number of `GRU` cells at `english_vocab_size`. You can assign 128 or 256 instead.

The function `embed_model` builds a RNN model using word embedding.

Your hyperparameter settings for `embed_model` is very good 👍

The Embedding RNN is trained on the dataset. A prediction using the model on the training dataset is printed in the notebook.

The function `bd_model` builds a bidirectional RNN model.

The Bidirectional RNN is trained on the dataset. A prediction using the model on the training dataset is printed in the notebook.

The function `model_final` builds and trains a model that incorporates embedding, and bidirectional RNN using the dataset.

Good job on using `Embedding`, `Bidirectional`, and `Encoder-Decoder` in your `model_final`. 👍

Prediction

The final model correctly predicts both sentences.

Great job on getting perfect translations on both sentences and 97% accuracy score 👏

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