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PROJECT

Machine Translation

A part of the Artificial Intelligence Nanodegree Program

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Meets Specifications

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Hey, excellent job!
Congratulations on passing the Machine Translation Project

I highly encourage you to find another dataset with different language or just one that bigger in size and try to apply your work to it to master your skills and to see what you will get!

Also, I recommend this read (it has other parts too, pretty easy and fun to read).

Great job working on this project!.
Kudos

Submitted Files

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

All documents are present!

Preprocess

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

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

Great job implementing `tokenize` and `pas` functions!

Models

The function `simple_model` builds a basic RNN model.

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

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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.

Flawless implementation of RNN models!

Prediction

The final model correctly predicts both sentences.

Given the size of the dataset you have got great results! Translation results are amazing!
`il a vu un vieux camion rouge ---> Il a vu un vieux camion jaune`
`new jersey est parfois calme pendant l' automne et il est neigeux en avril --> new jersey est généralement agréable à l'automne et il est jamais en en`
You should definitely consider to train the network for a little longer time, that should increase the accuracy of the prediction!

There is a little issue not related to your model but you need to look into that, line:
`print(' '.join([y_id_to_word[np.argmax(x)] for x in y[0]]))`
Should have printed correct version of the sentence, however the output is `<PAD><PAD>...<PAD><PAD>`, please have a look.

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