



PROJECT

Machine Translation

A part of the Artificial Intelligence Nanodegree Program

PROJECT REVIEW

CODE REVIEW

NOTES

Requires Changes

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2 SPECIFICATIONS REQUIRE CHANGES



There was a crash in processing the final model. Please also clean up all of the hundreds of extra print lines in the output for next submission.

Almost there!

```
ValueError: Error when checking : expected embedding_32_input to have shape (None, 21) but got array with shape (2, 15)
```

Submitted Files

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

Easy one,

Preprocess

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

When using the default values to a python function you can leave them out.

```
tokenizer = Tokenizer(num_words=None, # restrict to most common words
                      filters='!"#$%&()*+,-./:;<=>?@[\\]^_`{|}~\t\n',
                      lower=True,
                      split=" ",
                      char_level=False)
```

Can be simplified to

```
tokenizer = Tokenizer()
```

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

Models

The function `simple_model` builds a basic RNN model.

Passed ,
62% validation accuracy after 10 epochs.

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

Passed ,
embedding, simple_rnn, dropout, time_distributed, time_distributed

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

Passed ,
85% validation accuracy after 10 epochs.

The function `bd_model` builds a bidirectional RNN model.

Passed ,
bidirectional(simple_rnn), dropout, time_distributed, time_distributed

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

Passed ,
65% validation accuracy after 10 epochs.

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

Crash in notebook, please update and resubmit.

```
ValueError: Error when checking : expected embedding_32_input to have shape (None, 21) but got array with shape (2, 15)
ValueError                                Traceback (most recent call last)
```

embedding, bidirectional(simple_rnn), repeatVector, bidirectional(simple_rnn), dropout, time_distributed, time_distributed
67% validation accuracy after 10 epochs.

Prediction

The final model correctly predicts both sentences.

Crash in notebook, see above.

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