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# Machine Translation

# **REVIEW CODE REVIEW HISTORY Meets Specifications** Great job! 👍 You seem to have understood theoretically and in practice (coding) how RNNs work for this kind of task. A Machine Translation tutorial from NVIDIA - Introduction to Neural Machine Translation with GPUs. Another cool tutorial - Language Translation with Deep Learning and the Magic of Sequences. Hope you enjoy those. Keep up with the good work! PS: For almost all of your models - the training validation loss shows up as - nan; you should refer to this knowledge question - as to how to rectify it.

6/9/21 8:49 Udacity Reviews

The following files have been submitted: helper.py , machine\_translation.ipynb ,
machine\_translation.html

This submission contains all of the three files:

• helper.py
• machine\_translation.ipynb
• machine\_translation.html

## **Preprocess**

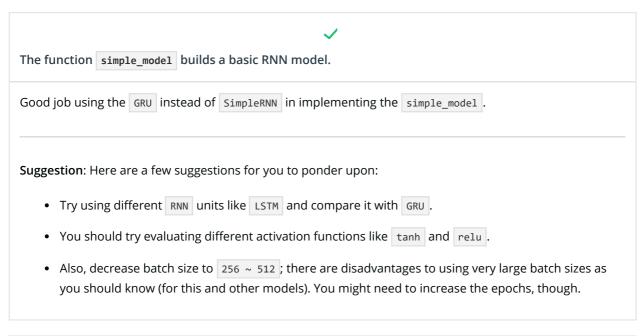
The function tokenize returns tokenized input and the tokenized class.

The function tokenize is correctly implemented and returns the tokenized input and the tokenized class.

The function pad returns padded input to the correct length.

The function pad is correctly implemented and returns padded input to the correct length.

#### Models



The function embed\_model builds a RNN model using word embedding.

The function embed\_model is correctly implemented and builds a RNN model using word embedding.

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 function <code>bd\_model</code> is correctly implemented and builds a bidirectional RNN model.

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

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

You did a great job building the model\_final using all of the building blocks from previous models.

### Prediction

**/** 

The final model correctly predicts both sentences.

You correctly trained the model in the dataset and obtained correct predictions for both the sentences.

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