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DISCUSS ON STUDENT HUB

## Machine Translation

		HISTORY
Meets Specifications		
Great job! 👍		
You seem to have understood the	oretically and in practice (coding) how RNNs wor	k for this kind of task.
	n NVIDIA - Introduction to Neural Machine Transranslation with Deep Learning and the Magic of	
Hope you enjoy those. Keep up with the good work! 😃		
<b>PS</b> : For almost all of your models - <i>question</i> - so as to how to rectify i	the training validation loss shows up as - nan; y t.	ou should refer to <i>this knowledge</i>
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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 simple\_model builds a basic RNN model.

Good job using the GRU instead of SimpleRNN in implementing the simple\_model.

Suggestion: Here are a few suggestions for you to ponder upon:

- Try using different RNN units like LSTM and compare it with GRU.
- You should try evaluating different activation functions like tanh and relu.

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 bd\_model is correctly implemented and 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 <code>model\_final</code> builds and trains a model that incorporates embedding, and bidirectional RNN using the dataset.

You did a great job building the  $\boxed{ model\_final }$  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.

**J** DOWNLOAD PROJECT

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