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# LSTM Homehelper Chatbot

REVIEW HISTORY

## **Meets Specifications**

#### Congratulations

You finished the project. Good luck with your future projects.

## Implement a LSTM neural network for text generation

The encoder hidden state is accepted successfully into the decoder.

Well done, you have implemented the model as two layers. The encoder consists of two layers: an embedding layer and an LSTM layer. The outputs of the LSTM layer is passed in the encoder's forward function.

Decoder successfully turns the target string and encoder hidden state into an output.

Well done, The decoder module consists of an embedding layer, an LSTM, and a linear output layer.

The Seq2Seq can be called individually to instantiate the encoder and decoder models. The model can accept inputs for the encoder/decoder and produce a valid output.

Well done, The Seq2Seq model is a composite of the encoder and decoder modules. The Seq2Seq model's forward function discards the encoder outputs and retrieve the target inputs.

### Train the LSTM neural network parameters.

Select an appropriate optimizer and loss function.

Well done selecting cross entropy loss and Adam optimizer.

Turn the sentence (source, target) training data into index vectors that are appropriate for the embedding layers of the model

You properly used the pre-trained embeddings and properly indexed the embedding layer's words with the Gensim W2V model.

Print the epoch and loss from the training loop.

Well done.

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