UDACITY

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Sentiment Analysis with Neural Networks

REVIEW

HISTORY

Meets Specifications

Great job, you are ready to go! 💯Clearly, you have acquired all the important concepts from this project. Wish you all the best for the upcoming projects! 👌Hope you find the previous resources and suggestions useful.

Importing Twits

Print the number of twits in the dataset.

Preprocessing the Data

The function `preprocess` correctly lowercases, removes URLs, removes ticker symbols, removes punctuation, tokenizes, and removes any single character tokens.

Preprocess all the twits into the `tokenized` variable.

Create a bag of words using the tokenized data.

Remove most common and rare words by defining the following variables: `freqs`, `low_cotoff`, `high_cutoff`, `K_most_common`.

Defining the variables : 'vacab', 'id2vocab' and 'filtered' correctly.

Neural Network

The init function correctly initializes the following parameters: `self.vocab_size`, `self.embed_size`, `self.lstm_size`, `self.lstm_layers`, `self.dropout`, `self.embedding`, `self.lstm`, and `self.fc`.

The 'init_hidden' function generates a hidden state

The 'forward' function performs a forward pass of the model the parameter input using the hidden state.

Training

Correctly split the data into `train_features`, `valid_features`, `train_labels`, and `valid_labels`.

Train your model with dropout and clip the gradient. Print out the training progress with the loss and accuracy.

Awesome! The model is successfully trained and the required accuracy is displayed.

```
Starting epoch 1
/opt/conda/lib/python3.6/site-packages/ipykernel_launcher.py:83: UserWarning: Implicit dimension choic
tmax has been deprecated. Change the call to include dim=X as an argument.
Epoch: 1/5       Step: 100       Train. Loss: 0.970      Val. Loss: 0.929        Val. Acc.: 0.632115
Epoch: 1/5       Step: 200       Train. Loss: 0.799      Val. Loss: 0.818        Val. Acc.: 0.676923
```

Making Predictions

The `predict` function correctly prints out the prediction vector from the trained model.

Answer what the prediction of the model is and the uncertainty of the prediction.

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