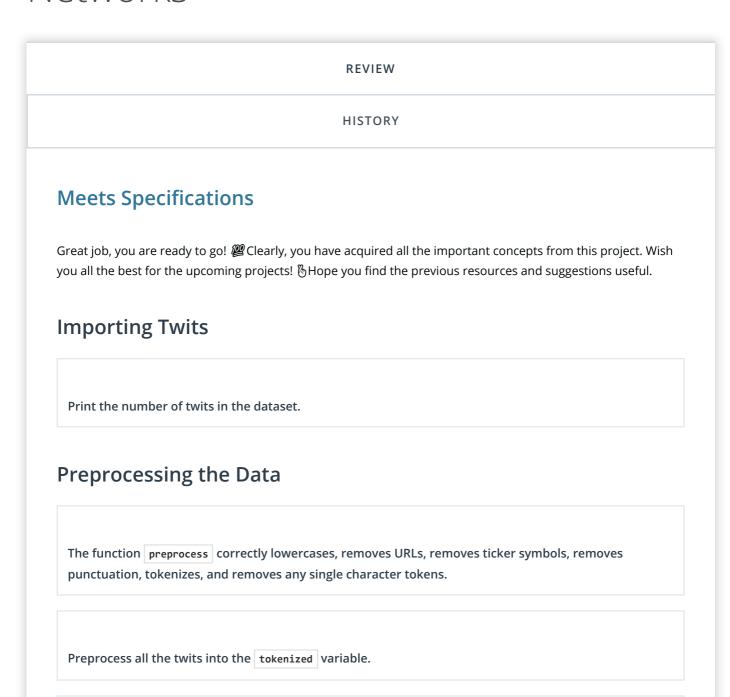


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Sentiment Analysis with Neural Networks



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

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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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