CNN text classification using word and character embedding

spitting lies and fucking metal and kissing

GO - GLCollab link

https://colab.research.google.com/drive/1Ko_NeSXcuEFTbqc-1e6MBqzFk3ryxq-#scrollTo=xUq_ZE

```
!pip install gensim

!wget -q -O - ftp://ftp.fr.openbsd.org/pub/cvs/OpenBSD/src/share/dict/words | tee /usr/share/dict/words
!wget -q -O - https://raw.githubusercontent.com/dwyl/english-words/master/words_alpha.txt | tee /usr/share/dict/words_alpha
!wc -l /usr/share/dict/words /usr/share/dict/words_alpha
!ln -s /usr/share/dict/words /usr/share/dict/wordlist
!ln -s /usr/share/dict/words_alpha /usr/share/dict/wordlist_alpha
!ls -l /usr/share/dict/wordlist*
!ls -lh /usr/share/dict/wordlist*
!ls -lhr /usr/share/dict/wordlist*
!ls -lhrt /usr/share/dict/wordlist*
!ls -lhrtS /usr/share/dict/wordlist*
!ls -lhrtSh /usr/share/dict/wordlist*
!ls -lhrtSh /usr/share/dict/wordlist* | tee -a /dev/stdout | wc -l
!ln -s /usr/share/dict/wordlist* /usr/share/dict/wordlist*.txt
!ls -lhrtSh /usr/share/dict/wordlist*.txt
```

```
Epoch 17/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
Epoch 18/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
Epoch 19/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
Epoch 20/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
Epoch 1/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
Epoch 2/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
Epoch 3/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
Epoch 4/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
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Epoch 5/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
Epoch 6/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
Epoch 7/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
Epoch 8/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
Epoch 9/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
Epoch 10/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
Epoch 11/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
Epoch 12/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
Epoch 13/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
Epoch 14/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
Epoch 15/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
Epoch 16/20
[==============================] - 15s 15ms/step - loss: 0.0139 - accuracy: 0.2390 - val_loss: 0.0
0.0139 - val_accuracy: 0.2390
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```

Transcribed glass block and black density, as 0x7fb3b1ec4d60.

Testing our test set on our best saved model (callback model checkpoint)

We get the accuracy of 12.39%

```
# Evaluate the model on the test data using `evaluate`
print('\n# Evaluate on test data')
results = model.evaluate(x_test, y_test, batch_size=128)
print('test loss, test acc:', results)

# Generate predictions (probabilities -- the output of the last layer)
# on new data.
predictions = model.predict(x_test)
print('# Generate predictions for 3 samples')
```