

2019-07-05 17:23:33,135 : INFO : EPOCH 2 - PROGRESS: at 92.46% examples, 1863 words/s,
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2019-07-05 17:35:43,931 : INFO : EPOCH 2 - PROGRESS: at 97.07% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:35:45,008 : INFO : EPOCH 2 - PROGRESS: at 97.09% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:35:53,212 : INFO : EPOCH 2 - PROGRESS: at 97.13% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:35:58,929 : INFO : EPOCH 2 - PROGRESS: at 97.17% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:36:00,897 : INFO : EPOCH 2 - PROGRESS: at 97.21% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:36:08,132 : INFO : EPOCH 2 - PROGRESS: at 97.26% examples, 1863 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:36:14,024 : INFO : EPOCH 2 - PROGRESS: at 97.29% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:36:16,586 : INFO : EPOCH 2 - PROGRESS: at 97.32% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:36:17,648 : INFO : EPOCH 2 - PROGRESS: at 97.35% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:36:23,459 : INFO : EPOCH 2 - PROGRESS: at 97.38% examples, 1863 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:36:29,307 : INFO : EPOCH 2 - PROGRESS: at 97.40% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:36:32,431 : INFO : EPOCH 2 - PROGRESS: at 97.41% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:36:38,369 : INFO : EPOCH 2 - PROGRESS: at 97.46% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:36:44,136 : INFO : EPOCH 2 - PROGRESS: at 97.48% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:36:48,244 : INFO : EPOCH 2 - PROGRESS: at 97.50% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:36:53,134 : INFO : EPOCH 2 - PROGRESS: at 97.55% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:36:59,151 : INFO : EPOCH 2 - PROGRESS: at 97.57% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:37:03,525 : INFO : EPOCH 2 - PROGRESS: at 97.59% examples, 1862 words/s,
in_qsize 7, out_qsize 0

```

2019-07-05 17:37:07,821 : INFO : EPOCH 2 - PROGRESS: at 97.62% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:37:13,775 : INFO : EPOCH 2 - PROGRESS: at 97.64% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:37:19,323 : INFO : EPOCH 2 - PROGRESS: at 97.66% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:37:23,087 : INFO : EPOCH 2 - PROGRESS: at 97.72% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:37:29,182 : INFO : EPOCH 2 - PROGRESS: at 97.75% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:37:35,886 : INFO : EPOCH 2 - PROGRESS: at 97.78% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:37:38,416 : INFO : EPOCH 2 - PROGRESS: at 97.84% examples, 1863 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:37:44,403 : INFO : EPOCH 2 - PROGRESS: at 97.87% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:37:51,604 : INFO : EPOCH 2 - PROGRESS: at 97.89% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:37:53,432 : INFO : EPOCH 2 - PROGRESS: at 97.95% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:37:59,588 : INFO : EPOCH 2 - PROGRESS: at 97.97% examples, 1863 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:38:07,979 : INFO : EPOCH 2 - PROGRESS: at 97.99% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:38:14,727 : INFO : EPOCH 2 - PROGRESS: at 98.06% examples, 1863 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:38:23,509 : INFO : EPOCH 2 - PROGRESS: at 98.08% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:38:29,963 : INFO : EPOCH 2 - PROGRESS: at 98.15% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:38:38,697 : INFO : EPOCH 2 - PROGRESS: at 98.17% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:38:39,744 : INFO : EPOCH 2 - PROGRESS: at 98.22% examples, 1863 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:38:44,651 : INFO : EPOCH 2 - PROGRESS: at 98.26% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:38:53,807 : INFO : EPOCH 2 - PROGRESS: at 98.28% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:38:55,760 : INFO : EPOCH 2 - PROGRESS: at 98.31% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:38:59,402 : INFO : EPOCH 2 - PROGRESS: at 98.35% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:39:08,948 : INFO : EPOCH 2 - PROGRESS: at 98.37% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:39:11,963 : INFO : EPOCH 2 - PROGRESS: at 98.41% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:39:14,619 : INFO : EPOCH 2 - PROGRESS: at 98.45% examples, 1863 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:39:24,245 : INFO : EPOCH 2 - PROGRESS: at 98.49% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:39:27,791 : INFO : EPOCH 2 - PROGRESS: at 98.51% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:39:29,683 : INFO : EPOCH 2 - PROGRESS: at 98.56% examples, 1863 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:39:39,308 : INFO : EPOCH 2 - PROGRESS: at 98.59% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:39:42,901 : INFO : EPOCH 2 - PROGRESS: at 98.60% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:39:44,166 : INFO : EPOCH 2 - PROGRESS: at 98.64% examples, 1863 words/s,

```

in_qsize 7, out_qsize 0
2019-07-05 17:39:45,213 : INFO : EPOCH 2 - PROGRESS: at 98.66% examples, 1863 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:39:54,604 : INFO : EPOCH 2 - PROGRESS: at 98.69% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:39:58,801 : INFO : EPOCH 2 - PROGRESS: at 98.72% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:40:00,338 : INFO : EPOCH 2 - PROGRESS: at 98.75% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:40:09,901 : INFO : EPOCH 2 - PROGRESS: at 98.81% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:40:14,244 : INFO : EPOCH 2 - PROGRESS: at 98.83% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:40:15,915 : INFO : EPOCH 2 - PROGRESS: at 98.87% examples, 1863 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:40:24,964 : INFO : EPOCH 2 - PROGRESS: at 98.92% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:40:30,260 : INFO : EPOCH 2 - PROGRESS: at 98.94% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:40:32,260 : INFO : EPOCH 2 - PROGRESS: at 98.99% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:40:39,508 : INFO : EPOCH 2 - PROGRESS: at 99.00% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:40:46,165 : INFO : EPOCH 2 - PROGRESS: at 99.02% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:40:48,367 : INFO : EPOCH 2 - PROGRESS: at 99.08% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:40:54,885 : INFO : EPOCH 2 - PROGRESS: at 99.10% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:41:01,211 : INFO : EPOCH 2 - PROGRESS: at 99.13% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:41:02,555 : INFO : EPOCH 2 - PROGRESS: at 99.16% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:41:04,791 : INFO : EPOCH 2 - PROGRESS: at 99.17% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:41:10,276 : INFO : EPOCH 2 - PROGRESS: at 99.20% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:41:16,276 : INFO : EPOCH 2 - PROGRESS: at 99.23% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:41:18,776 : INFO : EPOCH 2 - PROGRESS: at 99.25% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:41:20,447 : INFO : EPOCH 2 - PROGRESS: at 99.28% examples, 1863 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:41:25,636 : INFO : EPOCH 2 - PROGRESS: at 99.30% examples, 1863 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:41:31,587 : INFO : EPOCH 2 - PROGRESS: at 99.34% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:41:34,621 : INFO : EPOCH 2 - PROGRESS: at 99.35% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:41:36,605 : INFO : EPOCH 2 - PROGRESS: at 99.37% examples, 1863 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:41:40,370 : INFO : EPOCH 2 - PROGRESS: at 99.40% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:41:47,025 : INFO : EPOCH 2 - PROGRESS: at 99.42% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:41:50,807 : INFO : EPOCH 2 - PROGRESS: at 99.44% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:41:52,182 : INFO : EPOCH 2 - PROGRESS: at 99.47% examples, 1863 words/s,
in_qsize 7, out_qsize 0

```



```

2019-07-05 17:41:53,557 : INFO : EPOCH 2 - PROGRESS: at 99.50% examples, 1863 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:42:02,650 : INFO : EPOCH 2 - PROGRESS: at 99.52% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:42:06,118 : INFO : EPOCH 2 - PROGRESS: at 99.54% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:42:07,649 : INFO : EPOCH 2 - PROGRESS: at 99.56% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:42:17,735 : INFO : EPOCH 2 - PROGRESS: at 99.62% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:42:21,792 : INFO : EPOCH 2 - PROGRESS: at 99.65% examples, 1862 words/s,
in_qsize 8, out_qsize 0
2019-07-05 17:42:23,494 : INFO : EPOCH 2 - PROGRESS: at 99.67% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:42:32,760 : INFO : EPOCH 2 - PROGRESS: at 99.74% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:42:37,946 : INFO : EPOCH 2 - PROGRESS: at 99.76% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:42:39,651 : INFO : EPOCH 2 - PROGRESS: at 99.81% examples, 1863 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:42:47,605 : INFO : EPOCH 2 - PROGRESS: at 99.84% examples, 1862 words/s,
in_qsize 7, out_qsize 0
2019-07-05 17:42:52,916 : INFO : EPOCH 2 - PROGRESS: at 99.86% examples, 1862 words/s,
in_qsize 6, out_qsize 0
2019-07-05 17:42:55,446 : INFO : EPOCH 2 - PROGRESS: at 99.91% examples, 1863 words/s,
in_qsize 4, out_qsize 0
2019-07-05 17:43:03,041 : INFO : EPOCH 2 - PROGRESS: at 99.93% examples, 1862 words/s,
in_qsize 3, out_qsize 1
2019-07-05 17:43:03,041 : INFO : worker thread finished; awaiting finish of 3 more threads
2019-07-05 17:43:03,962 : INFO : worker thread finished; awaiting finish of 2 more threads
2019-07-05 17:43:05,449 : INFO : EPOCH 2 - PROGRESS: at 99.98% examples, 1863 words/s,
in_qsize 1, out_qsize 1
2019-07-05 17:43:05,449 : INFO : worker thread finished; awaiting finish of 1 more threads
2019-07-05 17:43:05,823 : INFO : worker thread finished; awaiting finish of 0 more threads
2019-07-05 17:43:05,823 : INFO : EPOCH - 2 : training on 41519358 raw words (30346517
effective words) took 16287.1s, 1863 effective words/s
2019-07-05 17:43:05,823 : INFO : training on a 83038716 raw words (60693884 effective words)
took 32594.8s, 1862 effective words/s
2019-07-05 17:43:05,823 : INFO : precomputing L2-norms of word weight vectors
Out[1]: 0.8223567

```

```

In [2]: model.save("Word2VectorGensim.model")
2019-07-06 14:46:44,757 : INFO : saving Word2Vec object under Word2VectorGensim.model,
separately None
2019-07-06 14:46:44,758 : INFO : storing np array 'vectors' to
Word2VectorGensim.model.wv.vectors.npy
2019-07-06 14:46:45,115 : INFO : not storing attribute vectors_norm
2019-07-06 14:46:45,118 : INFO : storing np array 'syn1neg' to
Word2VectorGensim.model.trainables.syn1neg.npy
2019-07-06 14:46:45,397 : INFO : not storing attribute cum_table
C:\Users\admin\Anaconda3\lib\site-packages\smart_open\smart_open_lib.py:398: UserWarning:
This function is deprecated, use smart_open.open instead. See the migration notes for
details: https://github.com/RaRe-Technologies/smart\_open/blob/master/README.rst#migrating-to-the-new-open-function
  'See the migration notes for details: %s' % _MIGRATION_NOTES_URL
2019-07-06 14:46:45,641 : INFO : saved Word2VectorGensim.model

```

```

In [3]: modelSaved = gensim.models.Word2Vec.load("Word2VectorGensim.model")
2019-07-06 14:48:32,496 : INFO : loading Word2Vec object from Word2VectorGensim.model

```

```
C:\Users\admin\Anaconda3\lib\site-packages\smart_open\smart_open_lib.py:398: UserWarning:
This function is deprecated, use smart_open.open instead. See the migration notes for
details: https://github.com/RaRe-Technologies/smart\_open/blob/master/README.rst#migrating-to-the-new-open-function
```

```
'See the migration notes for details: %s' % _MIGRATION_NOTES_URL
```

```
2019-07-06 14:48:32,587 : INFO : loading ww recursively from Word2VectorGensim.model.ww.*
with mmap=None
```

```
2019-07-06 14:48:32,588 : INFO : loading vectors from Word2VectorGensim.model.ww.vectors.npy
with mmap=None
```

```
2019-07-06 14:48:32,609 : INFO : setting ignored attribute vectors_norm to None
```

```
2019-07-06 14:48:32,610 : INFO : loading vocabulary recursively from
```

```
Word2VectorGensim.model.vocabulary.* with mmap=None
```

```
2019-07-06 14:48:32,611 : INFO : loading trainables recursively from
```

```
Word2VectorGensim.model.trainables.* with mmap=None
```

```
2019-07-06 14:48:32,612 : INFO : loading syn1neg from
```

```
Word2VectorGensim.model.trainables.syn1neg.npy with mmap=None
```

```
2019-07-06 14:48:32,631 : INFO : setting ignored attribute cum_table to None
```

```
2019-07-06 14:48:32,632 : INFO : loaded Word2VectorGensim.model
```

```
In [4]: modelSaved.ww.most_similar(positive=w1)
```

```
2019-07-06 14:48:56,422 : INFO : precomputing L2-norms of word weight vectors
```

```
Out[4]:
```

```
[('amazed', 0.8097079992294312),
 ('horrified', 0.7990546226501465),
 ('appalled', 0.7788991928100586),
 ('astonished', 0.7728351354598999),
 ('suprised', 0.7402072548866272),
 ('stunned', 0.7359300851821899),
 ('dismayed', 0.7343570590019226),
 ('surprized', 0.7142817974090576),
 ('astounded', 0.7011071443557739),
 ('surprised', 0.6921557188034058)]
```

```
In [5]: model.ww.most_similar(positive=w1)
```

```
Out[5]:
```

```
[('amazed', 0.8097079992294312),
 ('horrified', 0.7990546226501465),
 ('appalled', 0.7788991928100586),
 ('astonished', 0.7728351354598999),
 ('suprised', 0.7402072548866272),
 ('stunned', 0.7359300851821899),
 ('dismayed', 0.7343570590019226),
 ('surprized', 0.7142817974090576),
 ('astounded', 0.7011071443557739),
 ('surprised', 0.6921557188034058)]
```

```
In [6]: w1=["summer"]
```

```
...: model.ww.most_similar(positive=w1,topn=6)
```

```
Out[6]:
```

```
[('winter', 0.8099874258041382),
 ('heatwave', 0.6428799629211426),
 ('autumn', 0.6162552833557129),
 ('weather', 0.5872957706451416),
 ('spell', 0.5677729845046997),
 ('summertime', 0.5629850029945374)]
```

```
In [7]: modelSaved.ww.most_similar(positive=w1,topn=6)
```

```
Out[7]:
```

```
[('winter', 0.8099874258041382),
```

```

('heatwave', 0.6428799629211426),
('autumn', 0.6162552833557129),
('weather', 0.5872957706451416),
('spell', 0.5677729845046997),
('summertime', 0.5629850029945374)]

In [8]: w1=["shocked"]
...: model.wv.most_similar(positive=w1,topn=6)
Out[8]:
[('amazed', 0.8097079992294312),
 ('horrificed', 0.7990546226501465),
 ('appalled', 0.7788991928100586),
 ('astonished', 0.7728351354598999),
 ('suprised', 0.7402072548866272),
 ('stunned', 0.7359300851821899)]

In [9]: model.wv.similarity(w1="dirty",w2="smelly")
Out[9]: 0.74355805

In [10]: model.wv.similarity(w1="dirty",w2="dirty")
Out[10]: 1.0

In [11]: model.wv.similarity(w1="dirty",w2="unclean")
Out[11]: 0.8223567

In [12]: from keras.models import Sequential
...: from keras.layers import Convolution2D
...: from keras.layers import MaxPooling2D
...: from keras.layers import Flatten
...: from keras.layers import Dense
Using TensorFlow backend.

In [13]: classifier = Sequential()
WARNING: Logging before flag parsing goes to stderr.
W0706 15:05:48.899093 7840 deprecation_wrapper.py:119] From C:\Users\admin\Anaconda3\lib\site-packages\keras\backend\tensorflow_backend.py:74: The name tf.get_default_graph is deprecated. Please use tf.compat.v1.get_default_graph instead.

In [14]: classifier.add(Convolution2D(32, 3, 3, input_shape = (64, 64, 3), activation = 'relu'))
__main__:1: UserWarning: Update your `Conv2D` call to the Keras 2 API: `Conv2D(32, (3, 3), input_shape=(64, 64, 3...), activation="relu")`
W0706 15:05:53.368708 7840 deprecation_wrapper.py:119] From C:\Users\admin\Anaconda3\lib\site-packages\keras\backend\tensorflow_backend.py:517: The name tf.placeholder is deprecated. Please use tf.compat.v1.placeholder instead.

W0706 15:05:53.477296 7840 deprecation_wrapper.py:119] From C:\Users\admin\Anaconda3\lib\site-packages\keras\backend\tensorflow_backend.py:4138: The name tf.random_uniform is deprecated. Please use tf.random.uniform instead.

In [15]: classifier.add(MaxPooling2D(pool_size = (2, 2)))
W0706 15:05:55.923875 7840 deprecation_wrapper.py:119] From C:\Users\admin\Anaconda3\lib\site-packages\keras\backend\tensorflow_backend.py:3976: The name tf.nn.max_pool is deprecated. Please use tf.nn.max_pool2d instead.

In [16]: classifier.add(Convolution2D(32, 3, 3, activation = 'relu'))

```

```
...: classifier.add(MaxPooling2D(pool_size = (2, 2)))
__main__:1: UserWarning: Update your `Conv2D` call to the Keras 2 API: `Conv2D(32, (3, 3),
activation="relu")`
```

```
In [17]: classifier.add(Flatten())
```

```
In [18]: classifier.add(Dense(output_dim = 128, activation = 'relu'))
...: classifier.add(Dense(output_dim = 1, activation = 'sigmoid'))
__main__:1: UserWarning: Update your `Dense` call to the Keras 2 API:
`Dense(activation="relu", units=128)`
__main__:2: UserWarning: Update your `Dense` call to the Keras 2 API:
`Dense(activation="sigmoid", units=1)`
```

```
In [19]: classifier.compile(optimizer = 'adam', loss = 'binary_crossentropy', metrics =
['accuracy'])
W0706 15:06:10.470226 7840 deprecation_wrapper.py:119] From C:\Users\admin\Anaconda3\lib
\site-packages\keras\optimizers.py:790: The name tf.train.Optimizer is deprecated. Please
use tf.compat.v1.train.Optimizer instead.

W0706 15:06:10.486186 7840 deprecation_wrapper.py:119] From C:\Users\admin\Anaconda3\lib
\site-packages\keras\backend\tensorflow_backend.py:3376: The name tf.log is deprecated.
Please use tf.math.log instead.

W0706 15:06:10.514463 7840 deprecation.py:323] From C:\Users\admin\Anaconda3\lib\site-
packages\tensorflow\python\ops\nn_impl.py:180: add_dispatch_support.<locals>.wrapper (from
tensorflow.python.ops.array_ops) is deprecated and will be removed in a future version.
Instructions for updating:
Use tf.where in 2.0, which has the same broadcast rule as np.where
```

```
In [20]: from keras.preprocessing.image import ImageDataGenerator
...:
...: train_datagen = ImageDataGenerator(rescale = 1./255,
...:                                   shear_range = 0.2,
...:                                   zoom_range = 0.2,
...:                                   horizontal_flip = True)
```

```
In [21]: test_datagen = ImageDataGenerator(rescale = 1./255)
```

```
In [22]: training_set = train_datagen.flow_from_directory('dataset/training_set',
...:                                                       target_size = (64, 64),
...:                                                       batch_size = 32,
...:                                                       class_mode = 'binary')
```

```
Traceback (most recent call last):
```

```
File "<ipython-input-22-111f853ab8e9>", line 4, in <module>
    class_mode = 'binary')
```

```
File "C:\Users\admin\Anaconda3\lib\site-packages\keras_preprocessing\image
\image_data_generator.py", line 540, in flow_from_directory
    interpolation=interpolation
```

```
File "C:\Users\admin\Anaconda3\lib\site-packages\keras_preprocessing\image
\directory_iterator.py", line 106, in __init__
    for subdir in sorted(os.listdir(directory)):
```

```
FileNotFoundError: [WinError 3] The system cannot find the path specified: 'dataset/
training_set'
```

In [23]:

```
In [23]: training_set = train_datagen.flow_from_directory('dataset/training_set',
...:                                                    target_size = (64, 64),
...:                                                    batch_size = 32,
...:                                                    class_mode = 'binary')
Found 8000 images belonging to 2 classes.
```

```
In [24]: test_set = test_datagen.flow_from_directory('dataset/test_set',
...:                                                target_size = (64, 64),
...:                                                batch_size = 32,
...:                                                class_mode = 'binary')
Found 2000 images belonging to 2 classes.
```

```
In [25]: classifier.fit_generator(training_set,
...:                             samples_per_epoch = 8000,
...:                             nb_epoch = 25,
...:                             validation_data = test_set,
...:                             nb_val_samples = 2000)
__main__:5: UserWarning: The semantics of the Keras 2 argument `steps_per_epoch` is not the
same as the Keras 1 argument `samples_per_epoch`. `steps_per_epoch` is the number of batches
to draw from the generator at each epoch. Basically steps_per_epoch = samples_per_epoch/
batch_size. Similarly `nb_val_samples`->`validation_steps` and `val_samples`->`steps`
arguments have changed. Update your method calls accordingly.
__main__:5: UserWarning: Update your `fit_generator` call to the Keras 2 API:
`fit_generator(<keras_pre..., validation_data=<keras_pre..., steps_per_epoch=250, epochs=25,
validation_steps=2000)`
W0706 15:07:00.385374 7840 deprecation_wrapper.py:119] From C:\Users\admin\Anaconda3\lib
\site-packages\keras\backend\tensorflow_backend.py:986: The name tf.assign_add is
deprecated. Please use tf.compat.v1.assign_add instead.
```

```
Epoch 1/25
250/250 [=====] - 216s 862ms/step - loss: 0.6874 - acc: 0.5426 -
val_loss: 0.6662 - val_acc: 0.6181
Epoch 2/25
250/250 [=====] - 179s 715ms/step - loss: 0.6424 - acc: 0.6250 -
val_loss: 0.5837 - val_acc: 0.7024
Epoch 3/25
250/250 [=====] - 206s 824ms/step - loss: 0.5837 - acc: 0.6914 -
val_loss: 0.5446 - val_acc: 0.7337
Epoch 4/25
250/250 [=====] - 181s 723ms/step - loss: 0.5415 - acc: 0.7262 -
val_loss: 0.5332 - val_acc: 0.7349
Epoch 5/25
250/250 [=====] - 174s 695ms/step - loss: 0.5188 - acc: 0.7431 -
val_loss: 0.5001 - val_acc: 0.7731
Epoch 6/25
250/250 [=====] - 174s 696ms/step - loss: 0.4959 - acc: 0.7581 -
val_loss: 0.4952 - val_acc: 0.7665
Epoch 7/25
250/250 [=====] - 174s 696ms/step - loss: 0.4762 - acc: 0.7716 -
val_loss: 0.5191 - val_acc: 0.7570
Epoch 8/25
250/250 [=====] - 174s 696ms/step - loss: 0.4598 - acc: 0.7792 -
val_loss: 0.4861 - val_acc: 0.7731
Epoch 9/25
250/250 [=====] - 174s 695ms/step - loss: 0.4401 - acc: 0.7884 -
val_loss: 0.5473 - val_acc: 0.7524
Epoch 10/25
```

```

250/250 [=====] - 174s 696ms/step - loss: 0.4275 - acc: 0.7962 -
val_loss: 0.5008 - val_acc: 0.7660
Epoch 11/25
250/250 [=====] - 174s 695ms/step - loss: 0.4151 - acc: 0.8044 -
val_loss: 0.4643 - val_acc: 0.7987
Epoch 12/25
250/250 [=====] - 174s 695ms/step - loss: 0.3969 - acc: 0.8137 -
val_loss: 0.5048 - val_acc: 0.7829
Epoch 13/25
250/250 [=====] - 174s 694ms/step - loss: 0.3893 - acc: 0.8206 -
val_loss: 0.4751 - val_acc: 0.7795
Epoch 14/25
250/250 [=====] - 174s 695ms/step - loss: 0.3590 - acc: 0.8389 -
val_loss: 0.4872 - val_acc: 0.7860
Epoch 15/25
250/250 [=====] - 174s 694ms/step - loss: 0.3548 - acc: 0.8425 -
val_loss: 0.4609 - val_acc: 0.7981
Epoch 16/25
250/250 [=====] - 174s 696ms/step - loss: 0.3330 - acc: 0.8534 -
val_loss: 0.4775 - val_acc: 0.7970
Epoch 17/25
250/250 [=====] - 174s 696ms/step - loss: 0.3135 - acc: 0.8611 -
val_loss: 0.4673 - val_acc: 0.8024
Epoch 18/25
250/250 [=====] - 174s 694ms/step - loss: 0.3058 - acc: 0.8674 -
val_loss: 0.4757 - val_acc: 0.8100
Epoch 19/25
250/250 [=====] - 173s 693ms/step - loss: 0.2984 - acc: 0.8741 -
val_loss: 0.4773 - val_acc: 0.8091
Epoch 20/25
250/250 [=====] - 173s 694ms/step - loss: 0.2770 - acc: 0.8809 -
val_loss: 0.5279 - val_acc: 0.7900
Epoch 21/25
250/250 [=====] - 174s 694ms/step - loss: 0.2640 - acc: 0.8889 -
val_loss: 0.5004 - val_acc: 0.7979
Epoch 22/25
250/250 [=====] - 174s 695ms/step - loss: 0.2471 - acc: 0.8961 -
val_loss: 0.5799 - val_acc: 0.7872
Epoch 23/25
250/250 [=====] - 174s 696ms/step - loss: 0.2381 - acc: 0.9017 -
val_loss: 0.5292 - val_acc: 0.7976
Epoch 24/25
250/250 [=====] - 174s 696ms/step - loss: 0.2231 - acc: 0.9065 -
val_loss: 0.5058 - val_acc: 0.8090
Epoch 25/25
250/250 [=====] - 174s 694ms/step - loss: 0.2201 - acc: 0.9080 -
val_loss: 0.5177 - val_acc: 0.8056
Out[25]: <keras.callbacks.History at 0x2e0c78707b8>

```

```

In [26]: import pickle
...: pickle.dump(classifier, open(r'CNNFullmodel.pkl', 'wb'))

```

```

In [27]: import pickle
...: pickle.dump(classifier, open(r'CNNFullmodel.pkl', 'wb'))

```

```

In [28]:

```