Emotion Analytics with Face Recognition

and Twitter

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Harshil, Mehul, Yong





```
harshil@harshil-VirtualBox: ~/face_classification/src
harshil@harshil-VirtualBox:~/face classification/src$ python3 image emotion gend
er.pv test4.ipg
Using TensorFlow backend.
/home/harshil/.local/lib/python3.5/site-packages/h5py/__init__.py:34: FutureWarn
ing: Conversion of the second argument of issubdtype from `float` to `np.floatin
g` is deprecated. In future, it will be treated as `np.float64 == np.dtype(float
).type`.
  from . conv import register converters as register converters
2019-05-02 21:20:16.218675: W tensorflow/core/platform/cpu feature quard.cc:45]
The TensorFlow library wasn't compiled to use SSE4.1 instructions, but these are
 available on your machine and could speed up CPU computations.
2019-05-02 21:20:16.218836: W tensorflow/core/platform/cpu feature quard.cc:45]
The TensorFlow library wasn't compiled to use SSE4.2 instructions, but these are
 available on your machine and could speed up CPU computations.
2019-05-02 21:20:16.218921: W tensorflow/core/platform/cpu feature quard.cc:45]
The TensorFlow library wasn't compiled to use AVX instructions, but these are av
ailable on your machine and could speed up CPU computations.
harshil@harshil-VirtualBox:~/face classification/src$
```

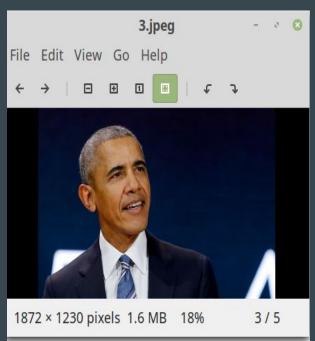




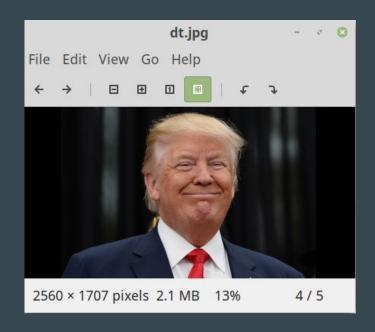
Emotion Analytics From Face Image - Training dataset







Face recognition with name mapping - Testing dataset





Face recognition with name mapping - Result

(iot_project) **yong@workstation:~/Desktop/GitHome/IOT/Project**\$ python fr.py obama.jpg Is the input face a picture of Obama? True

(iot_project) yong@workstation:~/Desktop/GitHome/IOT/Project\$ python fr.py dt.jpg
Is the input face a picture of Obama? False

Sentiment analysis from tweets

```
yong@workstation:~/Desktop/GitHome/IOT/Project$ python3 tweet_polarity.py brycesub
Counter({'neutral': 106, 'positive': 59, 'negative': 34})
```

```
yong@workstation:~/Desktop/GitHome/IOT/Project$ python3 tweet_polarity.py realDonaldTrump
Counter({'positive': 77, 'neutral': 76, 'negative': 46})
```

```
yong@workstation:~/Desktop/GitHome/IOT/Project$ python3 tweet_polarity.py BarackObama
Counter({'positive': 120, 'neutral': 59, 'negative': 21})
```