```
from deepface import DeepFace
import matplotlib.pyplot as plt
import pandas as pd
image_paths = ['./tests/dataset/img7.jpg',
'./tests/dataset/img10.jpg', './tests/dataset/img11.jpg',
'./tests/dataset/img2.jpg',
            './tests/dataset/img5.jpg', './tests/dataset/img4.jpg',
'./tests/dataset/img6.jpg', './tests/dataset/img1.jpg',
            './tests/dataset/couple.jpg']
''' Angelina Jolie
   ./tests/dataset//img7.jpg
                                    34
                                              12
                                                        94
                                                                 94
0
1
   ./tests/dataset//img10.jpg 34
                                              12
                                                        94
                                                                 94
2
                                              12
                                                        94
                                                                 94
   ./tests/dataset//img11.jpg
                                  34
3
    ./tests/dataset//img2.jpg
                                              12
                                                        94
                                                                 94
                                    34
    ./tests/dataset//img5.jpg
                                              12
                                                        94
                                                                 94
4
                               34
5
    ./tests/dataset//img4.jpg
                                 34
                                              12
                                                        94
                                                                 94
    ./tests/dataset//img6.jpg
                                              12
                                                        94
                                                                 94
6
                                   34
7
    ./tests/dataset//imgl.jpg
                               34
                                              12
                                                        94
                                                                 94
8 ./tests/dataset//couple.jpg
                               34
                                              12
                                                        94
                                                                 94
1.1.1
images = [plt.imread(image path) for image path in image paths]
fig, axes = plt.subplots(3, 3)
for i in range(9):
   axes[i // 3, i % 3].imshow(images[i])
for ax in axes.flatten():
   ax.set xticks([])
   ax.set yticks([])
plt.show()
print("Test Data Images -
```



















```
Test Data Images -
img1 path = './tests/dataset/img1.jpg'
img2 path = './tests/dataset/img2.jpg'
DeepFace.verify(img1 path = img1 path, img2 path = img2 path)
{'verified': True,
 'distance': 0.2555360336003648,
 'threshold': 0.4,
 'model': 'VGG-Face',
 'detector_backend': 'opencv',
'similarity_metric': 'cosine',
 'facial_areas': {'img1': {'x': 345, 'y': 211, 'w': 769, 'h': 769},
  'img2': {'x': 516, 'y': 192, 'w': 512, 'h': 512}},
 'time': 0.31}
model name = 'ArcFace'
# Recognition
source = DeepFace.detectFace('source.jpg')
plt.imshow(source)
df = DeepFace.find('source.jpg', db path = './tests/dataset/',
model name = model name)
print(df)
△ Function detectFace is deprecated. Use extract faces instead.
WARNING: Representations for images in ./tests/dataset/ folder were
```

previously stored in representations_arcface.pkl. If you added new instances after the creation, then please delete this file and call find function again. It will create it again.

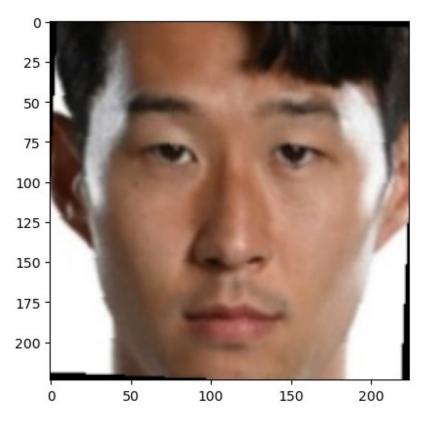
There are 67 representations found in representations_arcface.pkl find function lasts 0.060521841049194336 seconds

[Empty DataFrame

Columns: [identity, source_x, source_y, source_w, source_h,

ArcFace_cosine]

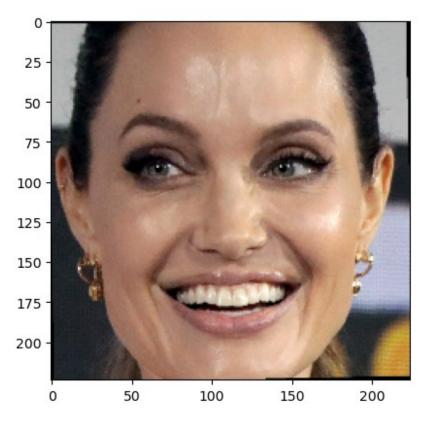
Index: []]



```
# Recognition
source2 = DeepFace.detectFace('source2.jpg')
plt.imshow(source2)
df = DeepFace.find('source2.jpg', db_path = './tests/dataset/',
model_name = model_name)
print(df)

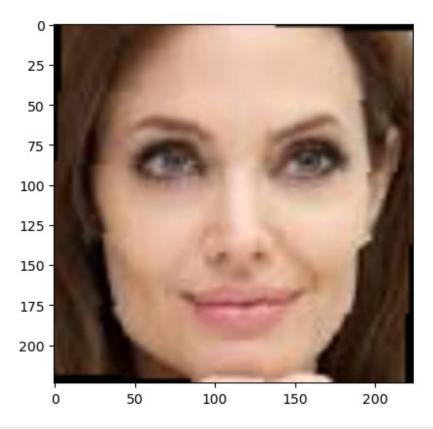
△ Function detectFace is deprecated. Use extract_faces instead.
WARNING: Representations for images in ./tests/dataset/ folder were
previously stored in representations_arcface.pkl. If you added new
instances after the creation, then please delete this file and call
find function again. It will create it again.
There are 67 representations found in representations_arcface.pkl
find function lasts 0.16852068901062012 seconds
[ identity source_x source_y source_w
```

```
source h \
  ./tests/dataset//img1.jpg
                                                   211
                                                             769
                                                                        769
                                        345
   ./tests/dataset//couple.jpg
                                        345
                                                   211
                                                             769
                                                                        769
     ./tests/dataset//img4.jpg
                                        345
                                                   211
                                                             769
                                                                        769
     ./tests/dataset//img5.jpg
                                                             769
                                                                        769
                                        345
                                                   211
                                                                        769
     ./tests/dataset//img7.jpg
                                        345
                                                   211
                                                             769
     ./tests/dataset//img2.jpg
                                        345
                                                   211
                                                             769
                                                                        769
5
                                                             769
                                                                        769
    ./tests/dataset//imgl1.jpg
                                        345
                                                   211
     ./tests/dataset//img6.jpg
                                                                        769
                                        345
                                                   211
                                                             769
    ./tests/dataset//img10.jpg
                                        345
                                                   211
                                                             769
                                                                        769
   ArcFace_cosine
         0.000000
1
         0.399647
2
         0.459549
3
         0.472917
4
         0.473010
5
         0.493950
6
         0.509957
7
         0.541251
8
         0.557641
                    ]
```



```
# Recognition
source3 = DeepFace.detectFace('source3.jpg')
plt.imshow(source3)
df = DeepFace.find('source3.jpg', db path = './tests/dataset/',
model name = model name)
print(df)
△ Function detectFace is deprecated. Use extract faces instead.
WARNING: Representations for images in ./tests/dataset/ folder were
previously stored in representations arcface.pkl. If you added new
instances after the creation, then please delete this file and call
find function again. It will create it again.
There are 67 representations found in representations arcface.pkl
find function lasts 0.04310894012451172 seconds
                       identity source x source y source w
[
source h \
                                                           94
                                                                     94
     ./tests/dataset//img7.jpg
                                      34
                                                 12
                                                 12
                                                           94
                                                                     94
    ./tests/dataset//img10.jpg
                                      34
                                                                     94
    ./tests/dataset//img11.jpg
                                      34
                                                 12
                                                           94
     ./tests/dataset//img2.jpg
                                      34
                                                 12
                                                           94
                                                                     94
                                                 12
                                                           94
     ./tests/dataset//img5.jpg
                                      34
                                                                     94
```

5	./tests/dataset//img4.jpg	34	12	94	94
6	./tests/dataset//img6.jpg	34	12	94	94
7	./tests/dataset//img1.jpg	34	12	94	94
8	./tests/dataset//couple.jpg	34	12	94	94



```
Action: emotion: 100%
                                           | 4/4 [00:00<00:00,
33.29it/s]
[{'age': 31,
  region': {'x': 345, 'y': 211, 'w': 769, 'h': 769},
  'gender': {'Woman': 99.99407529830933, 'Man': 0.005923582284594886},
  'dominant_gender': 'Woman',
  'race': {'asian': 9.931624680757523,
   'indian': 13.22040855884552,
   'black': 3.6350540816783905,
   'white': 23.476317524909973,
   'middle eastern': 20.396971702575684,
   'latino hispanic': 29.33962643146515},
  'dominant race': 'latino hispanic',
  'emotion': {'angry': 6.4263373507915516e-21,
   'disgust': 0.0,
   'fear': 1.158562056233721e-26,
   'happy': 100.0,
   'sad': 5.227795430007972e-17,
   'surprise': 4.701574546350784e-09,
   'neutral': 4.417989085681029e-07},
  'dominant_emotion': 'happy'}]
```