NewData

8 times augmented

Failed to predict - 51

```
In [11]:
models = pd.DataFrame({
                        'Model': ['Logistic Regression','KNN','SVM',
                                  'Kernel SVM','Linear SVC','Naive Bayes',
                                  'Decision Tree','Random Forest'],
                        'Score': [acc_log, acc_knn, acc_svm,
                                  acc_kersvm, acc_linsvc, acc_naive,
                                  acc_dectree, acc_randforest]
                    })

print(models.sort_values(by='Score', ascending=False))
```

	Model	Score
2	SVM	100.000000
3	Kernel SVM	100.000000
4	Linear SVC	99.208145
0	Logistic Regression	98.557692
5	Naive Bayes	68.269231
7	Random Forest	67.760181
6	Decision Tree	50.622172
1	KNN	27.828054

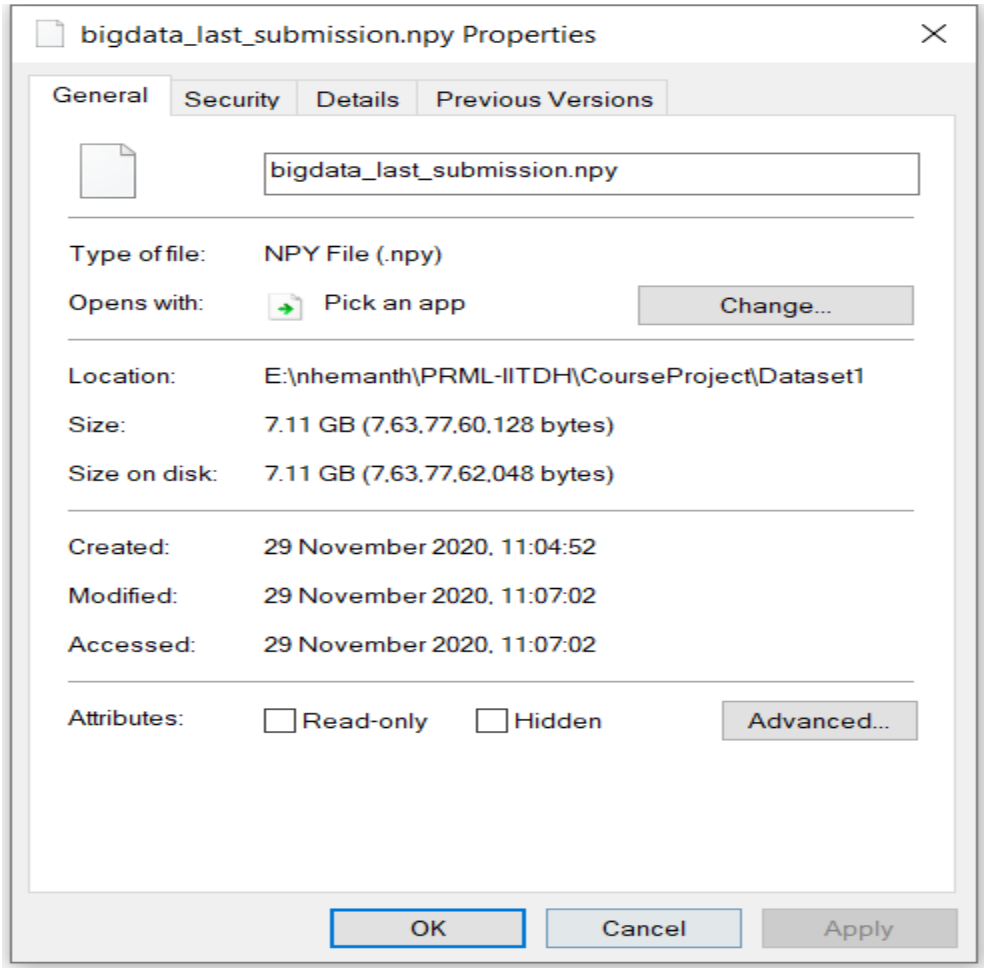
```
In [ ]:

In [12]:
X_train.shape

Out[12]: (3536, 300)
```

NewData

24 times augmented

10608 images - (300,300)

Have more data but could not train in my PC (results can be even more better with big dataset)



NewDataset

Same images

Total : 1080 images - (300,300)

- 25% split
- Train - 810, Test - 270

```
models = pd.DataFrame({
                        'Model': ['Logistic Regression','KNN','SVM',
                                  'Kernel SVM','Linear SVC','Naive Bayes',
                                  'Decision Tree','Random Forest'],
                        'Score': [acc_log, acc_knn, acc_svm,
                                  acc_kersvm, acc_linsvc, acc_naive,
                                  acc_dectree, acc_randforest]
                    })

print(models.sort_values(by='Score', ascending=False))
```

	Model	Score
0	Logistic Regression	75.185185
2	SVM	74.814815
3	Kernel SVM	74.444444
4	Linear SVC	70.740741
7	Random Forest	44.074074
5	Naive Bayes	43.703704
6	Decision Tree	36.666667
1	KNN	28.518519

```

```

```
X_train.shape
```

```
(810, 300)
```

```
X_test.shape
```

```
(270, 300)
```

NewData

3 times augmented(1080*3=3240)

Total : 3240 images - (300,300)

- 25% split
- Train - 2430, Test - 810

```
models = pd.DataFrame({
                        'Model': ['Logistic Regression','KNN','SVM',
                                  'Kernel SVM','Linear SVC','Naive Bayes',
                                  'Decision Tree','Random Forest'],
                        'Score': [acc_log, acc_knn, acc_svm,
                                  acc_kersvm, acc_linsvc, acc_naive,
                                  acc_dectree, acc_randforest]
                    })

print(models.sort_values(by='Score', ascending=False))
```

```
                Model      Score
0  Logistic Regression  99.259259
2                  SVM  99.259259
3           Kernel SVM  99.259259
4           Linear SVC  99.259259
5          Naive Bayes  70.617284
7        Random Forest  70.000000
6        Decision Tree  53.456790
1                  KNN  50.740741
```

```

```

```
X_train.shape
```

```
(2430, 300)
```

```
X_test.shape
```

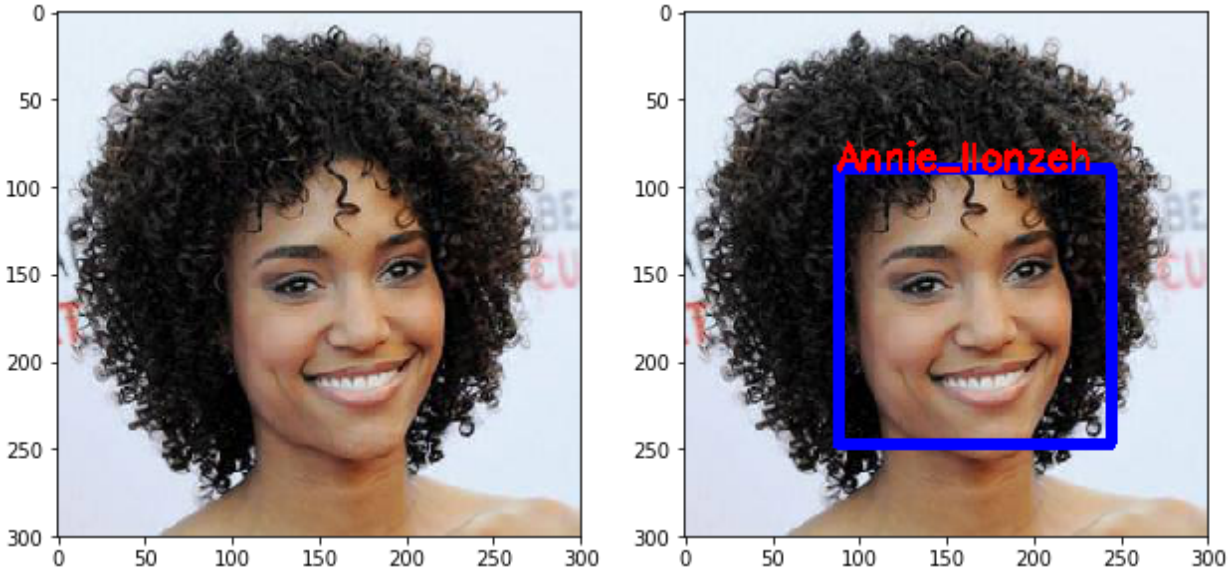
```
(810, 300)
```

RESULTS

Single person:

1.

2.



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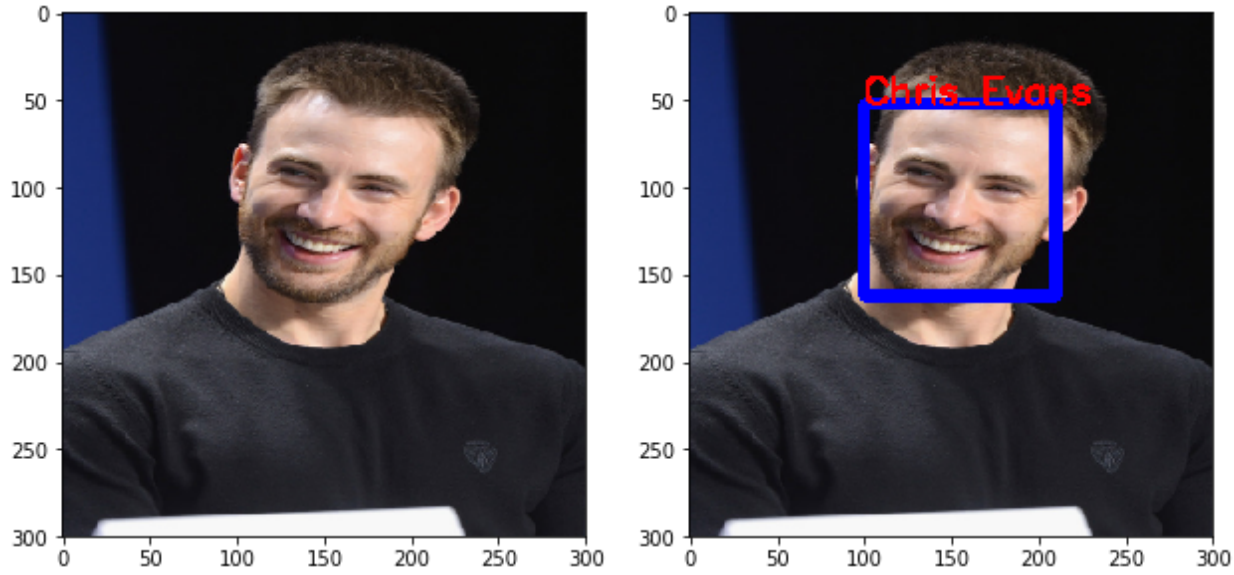
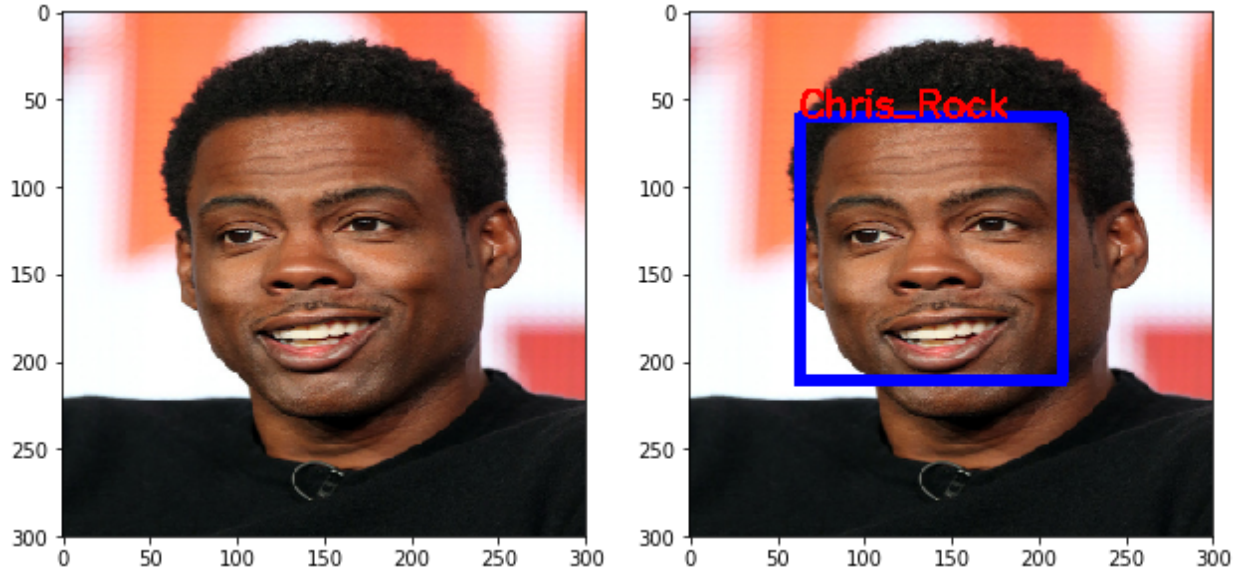
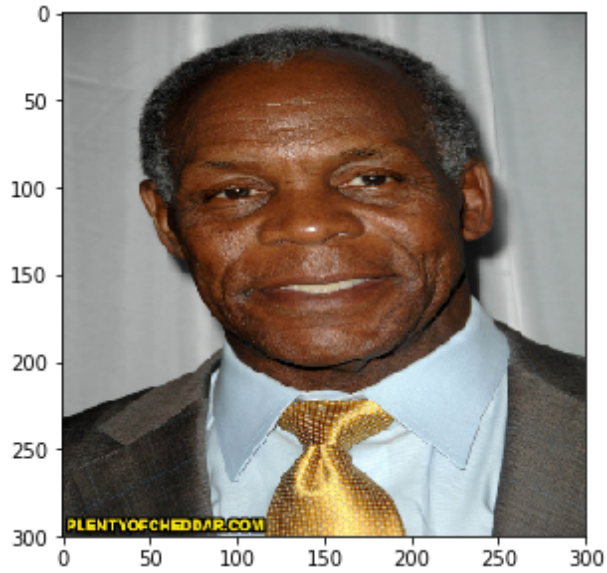
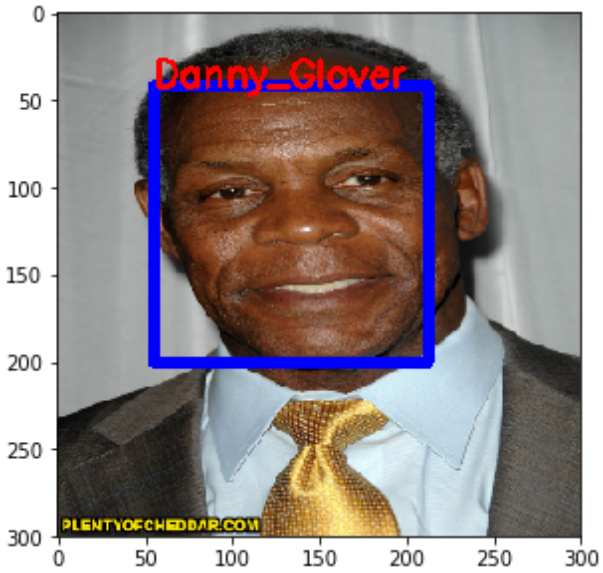


4.

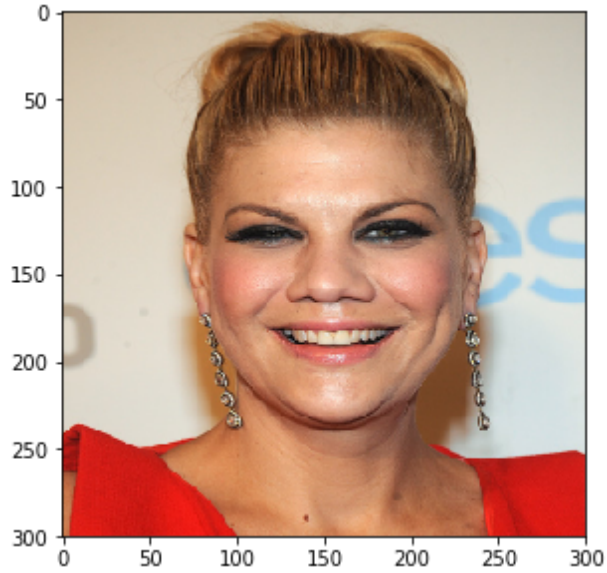


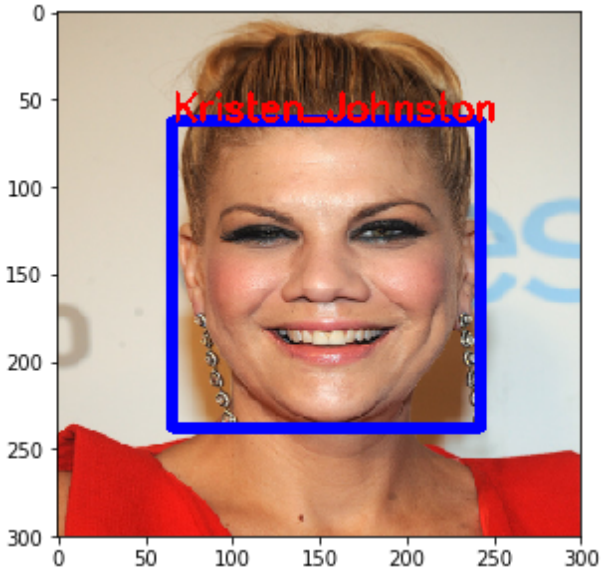
5.


PLENTYOFCHEDDAR.COM

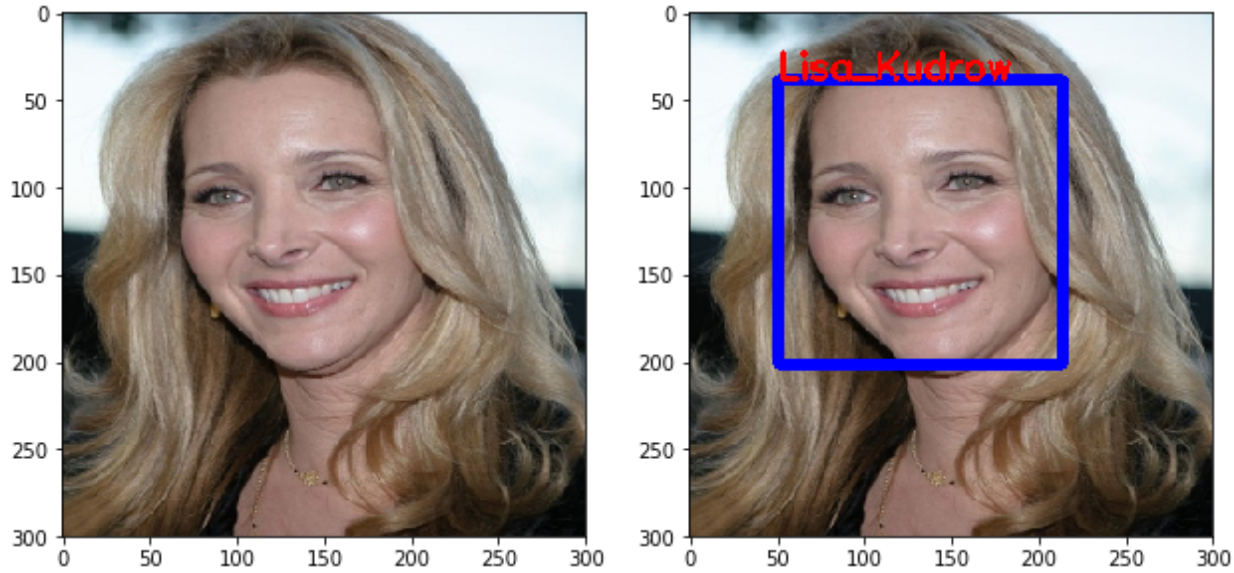

Danny_Glover
PLENTYOFCHEDDAR.COM

6.




Kristen_Johnston

7.



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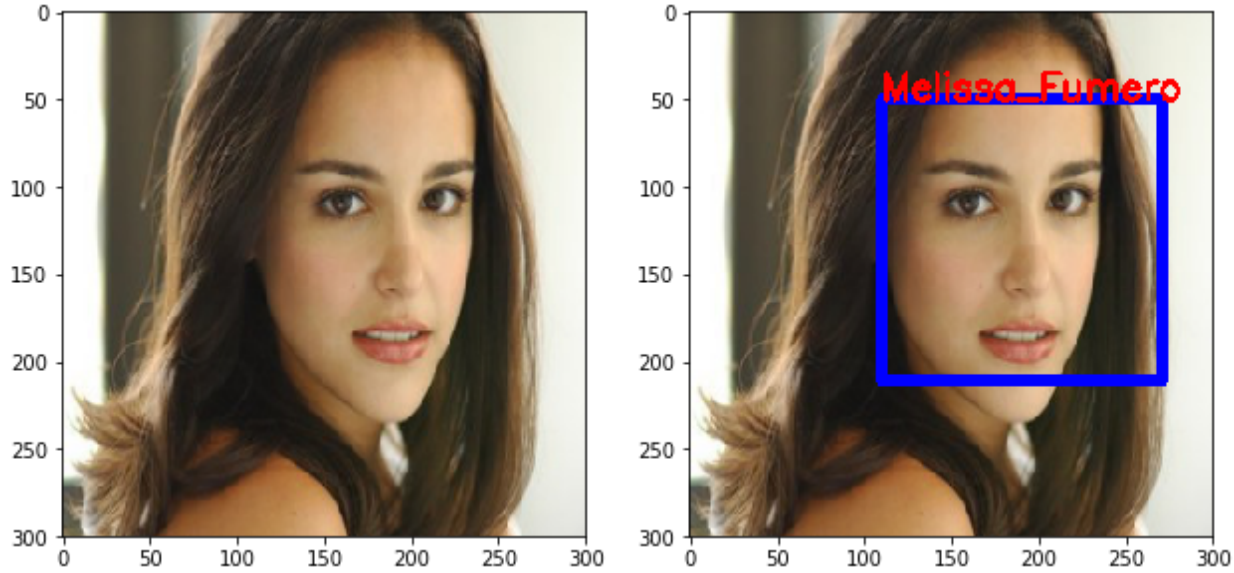
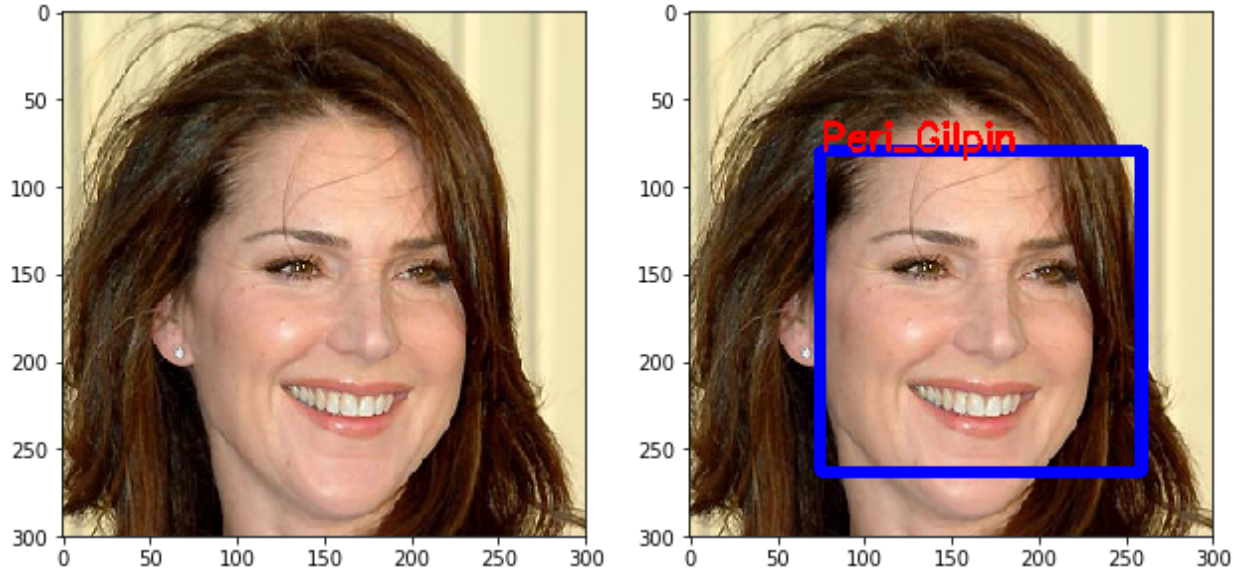


9.

10.



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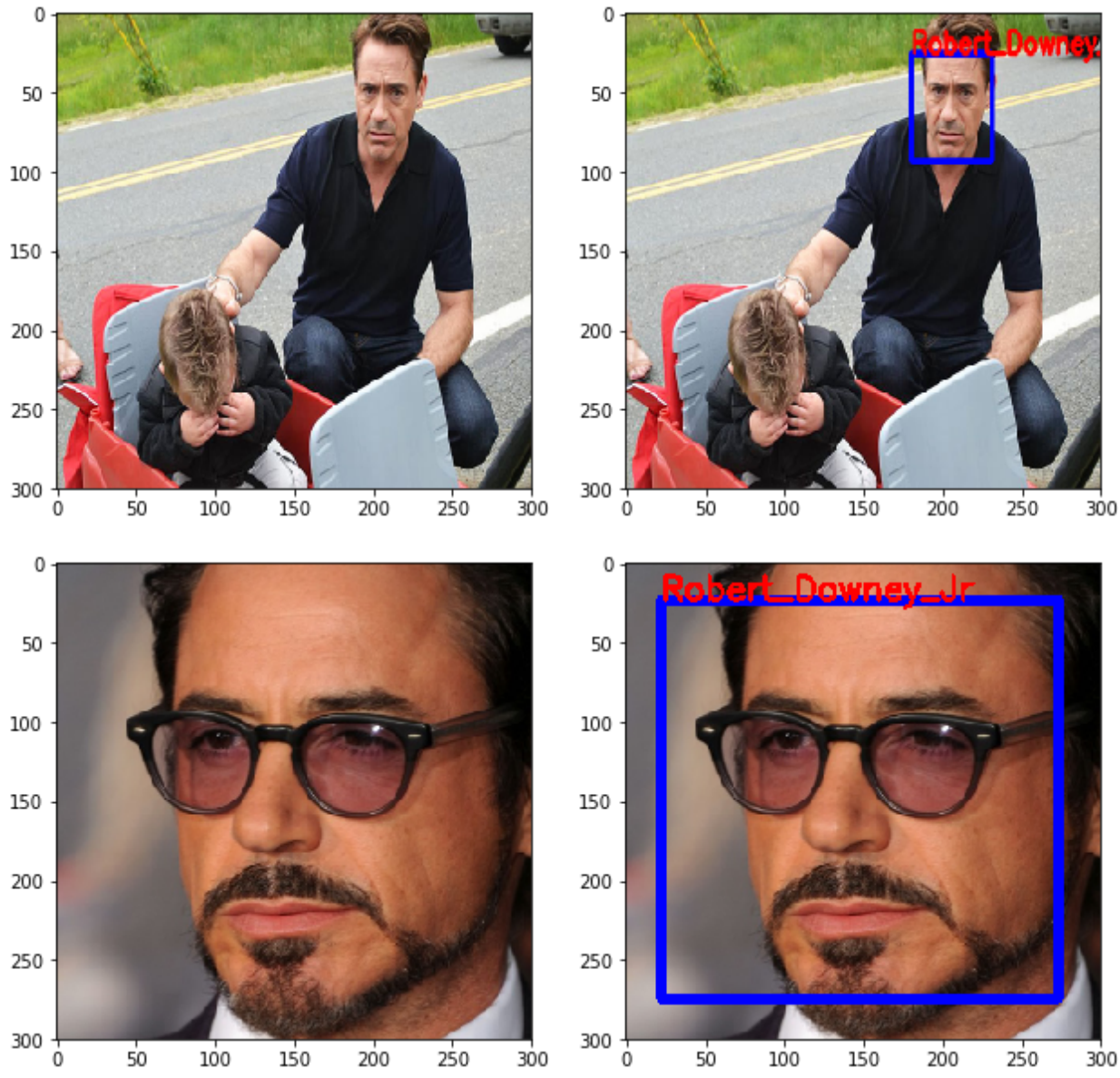

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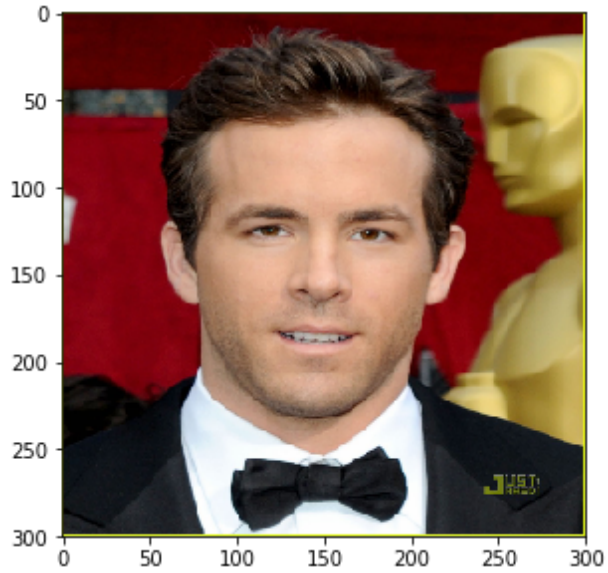
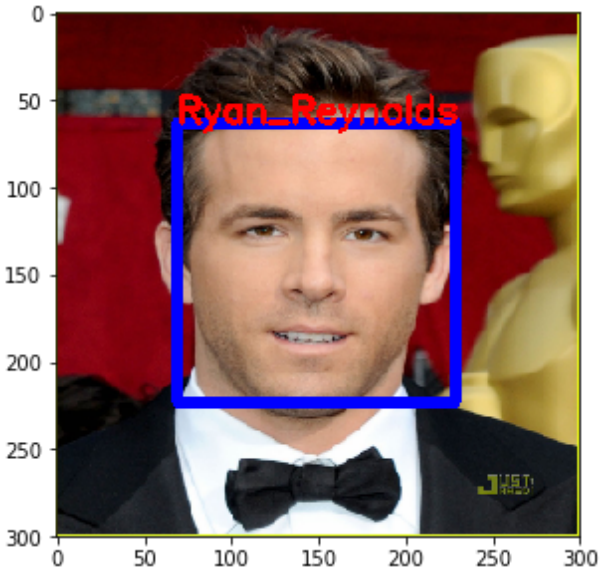
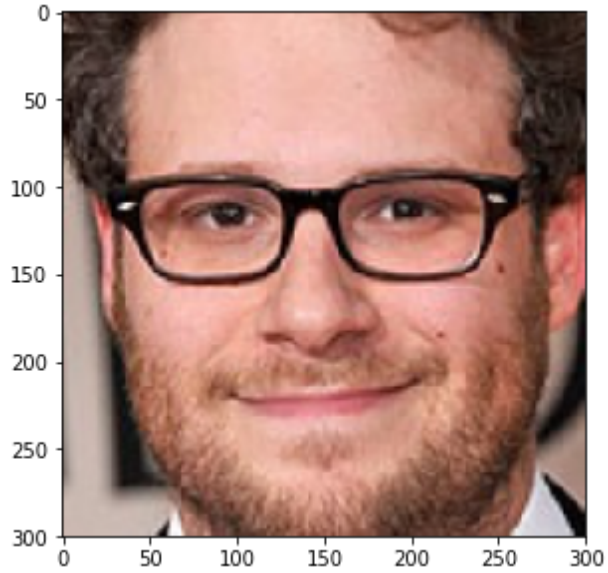
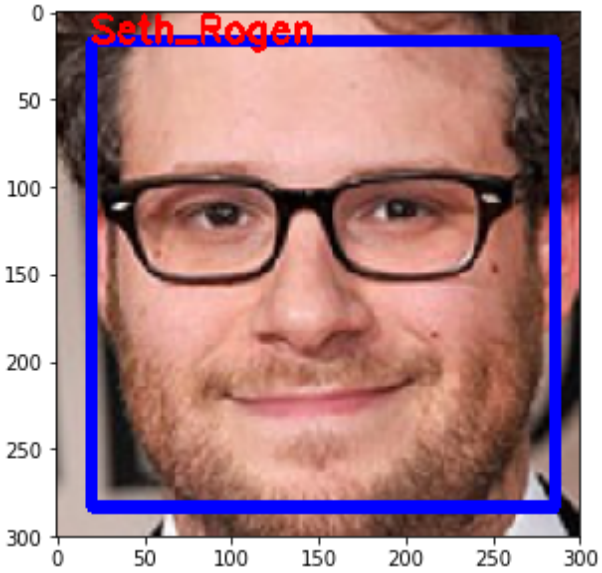


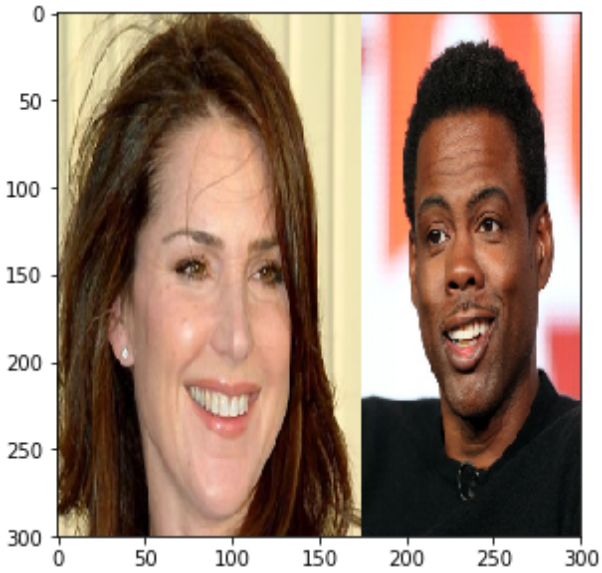


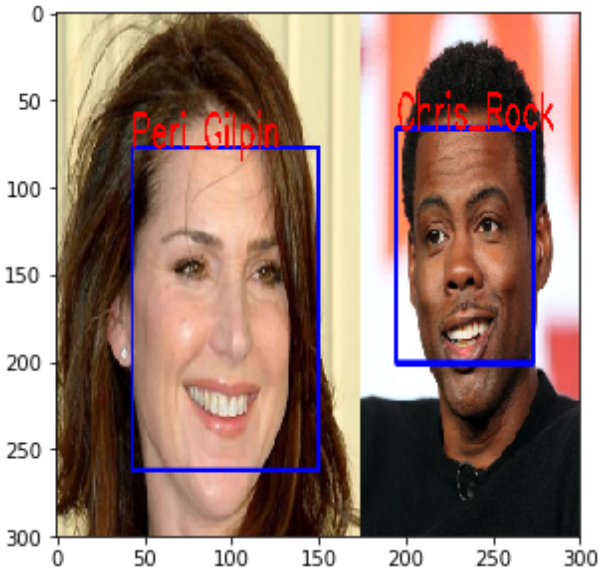
13.

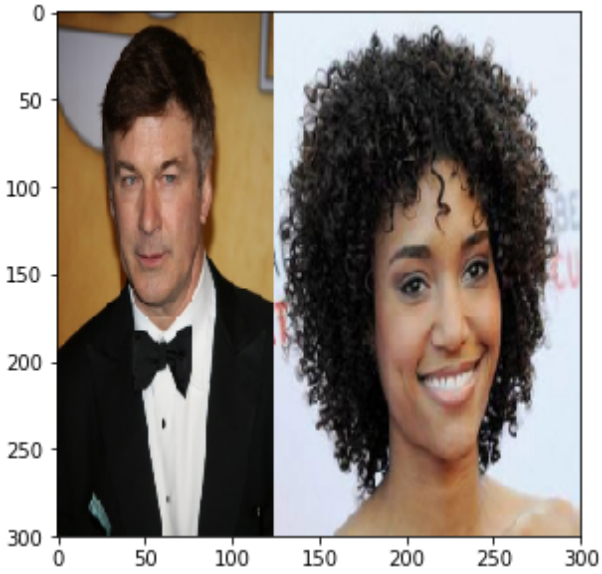


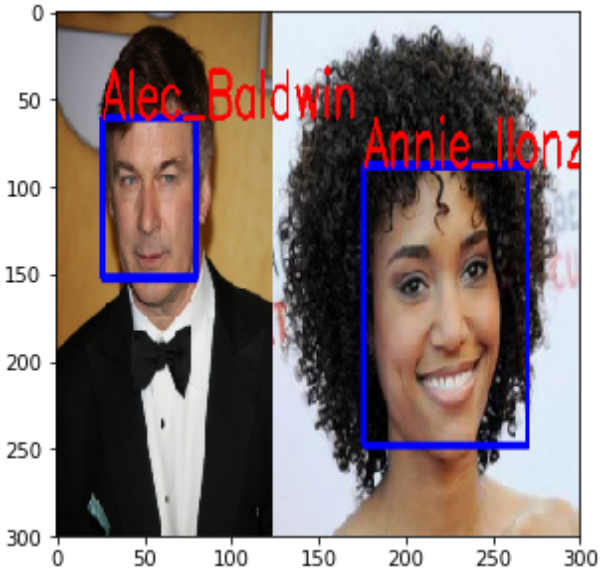


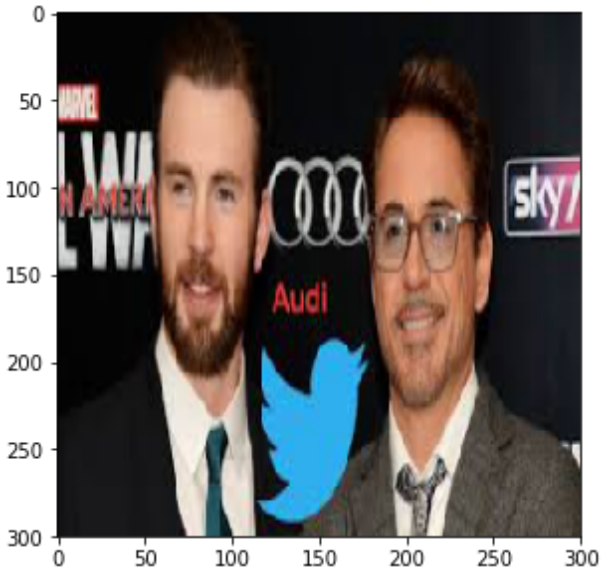
Multiple people :

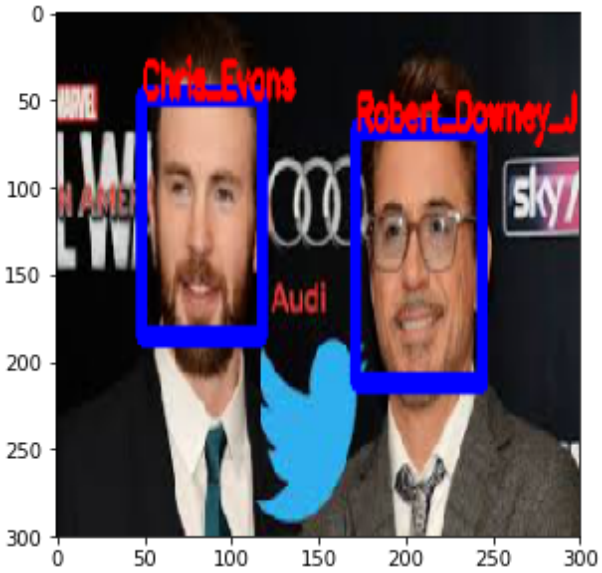


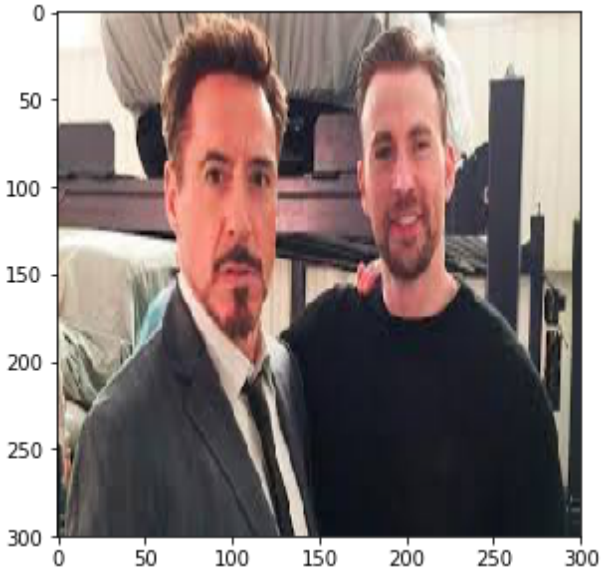

Peri_Gilpin
Chris_Rock




Alec_Baldwin
Annie_Ilonz

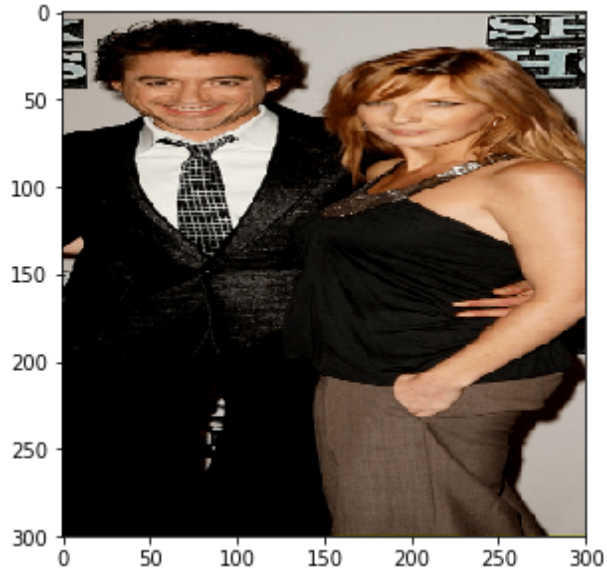

Audi
sky

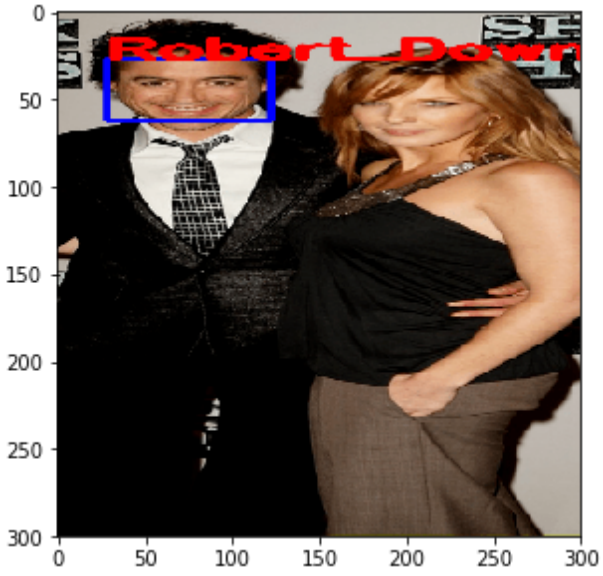

Chris_Evans
Robert_Downey_J
Audi
sky

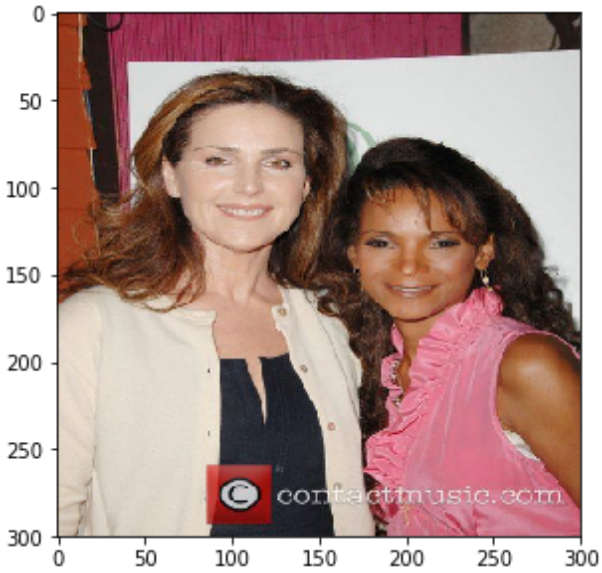


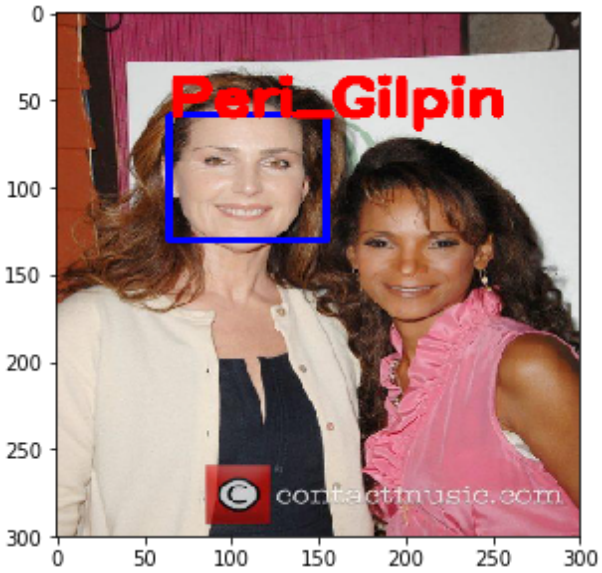

Robert_Downey_Jr
Chris_Evans

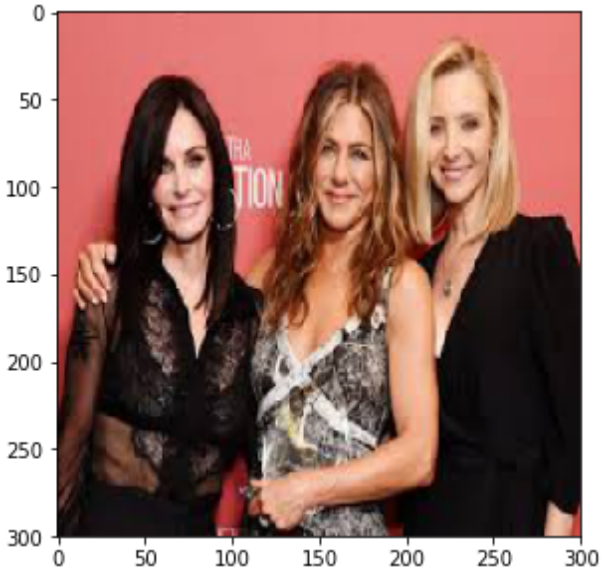
Multiple people : predicted only trained people






0
50
100
150
200
250
300
contactmusic.com


Peri_Gilpin
0
50
100
150
200
250
300
contactmusic.com


0
50
100
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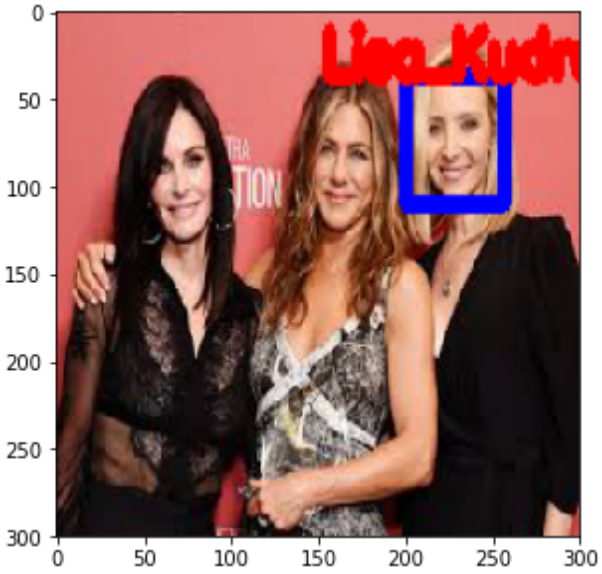
300


0
50
100
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200
250
300