

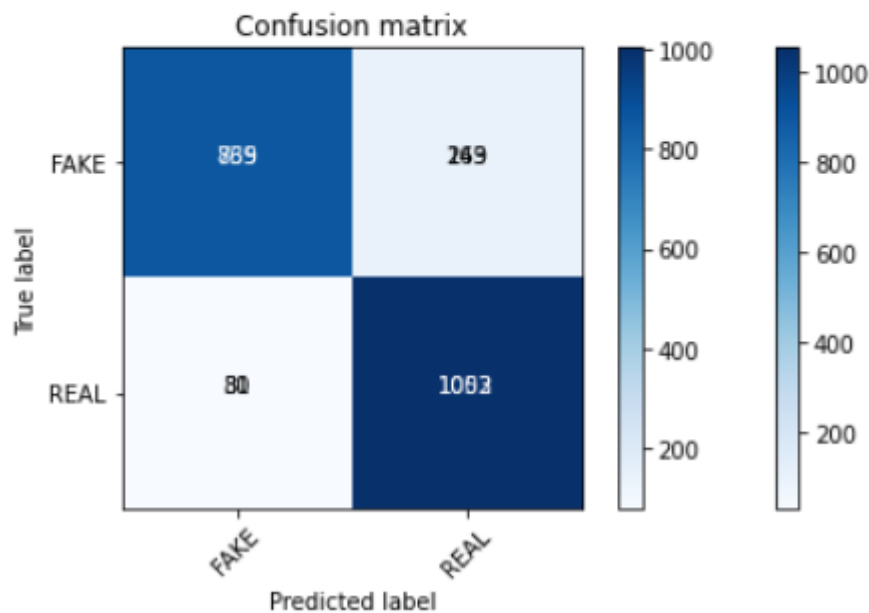
```
False
00 000 0000 000000031 0000035 000006 ... هذا والمرضى من محاولات ما fake
0 0 0 0 0 0 0 ... 0 0 0 0 0 0
1 0 0 0 0 0 0 ... 0 0 0 0 0 0
2 0 0 0 0 0 0 ... 0 0 0 0 0 0
3 0 0 0 0 0 0 ... 0 0 0 0 0 0
4 0 0 0 0 0 0 ... 0 0 0 0 0 0
```

```
[5 rows x 56922 columns]
00 000 0000 000000031 0000035 ... هذا والمرضى من محاولات fake
0 0.0 0.0 0.0 0.0 0.0 ... 0.0 0.0 0.0 0.0 0.0
1 0.0 0.0 0.0 0.0 0.0 ... 0.0 0.0 0.0 0.0 0.0
2 0.0 0.0 0.0 0.0 0.0 ... 0.0 0.0 0.0 0.0 0.0
3 0.0 0.0 0.0 0.0 0.0 ... 0.0 0.0 0.0 0.0 0.0
4 0.0 0.0 0.0 0.0 0.0 ... 0.0 0.0 0.0 0.0 0.0
```

```
[5 rows x 56922 columns]
```

## Naive Bayes classifier for Multinomial model

```
accuracy: 0.857
Confusion matrix, without normalization
[[ 739 269]
 [ 31 1052]]
accuracy: 0.893
Confusion matrix, without normalization
[[ 865 143]
 [ 80 1003]]
```



## Applying Passive Aggressive Classifier

