

# Fake News Classifier

In [1]:

```
import pandas as pd
```

In [2]:

```
#Read the data
df=pd.read_csv('D:/Fake-news/train/train.csv')
```

In [4]:

```
df.head(9)
```

Out[4]:

	id	title	author	text	label
0	0	House Dem Aide: We Didn't Even See Comey's Let...	Darrell Lucas	House Dem Aide: We Didn't Even See Comey's Let...	1
1	1	FLYNN: Hillary Clinton, Big Woman on Campus - ...	Daniel J. Flynn	Ever get the feeling your life circles the rou...	0
2	2	Why the Truth Might Get You Fired	Consortiumnews.com	Why the Truth Might Get You Fired October 29, ...	1
3	3	15 Civilians Killed In Single US Airstrike Hav...	Jessica Purkiss	Videos 15 Civilians Killed In Single US Aistr...	1
4	4	Iranian woman jailed for fictional unpublished...	Howard Portnoy	Print \nAn Iranian woman has been sentenced to...	1
5	5	Jackie Mason: Hollywood Would Love Trump if He...	Daniel Nussbaum	In these trying times, Jackie Mason is the Voi...	0
6	6	Life: Life Of Luxury: Elton John's 6 Favorite ...	NaN	Ever wonder how Britain's most iconic pop pian...	1
7	7	Benoît Hamon Wins French Socialist Party's Pre...	Alissa J. Rubin	PARIS — France chose an idealistic, traditi...	0
8	8	Excerpts From a Draft Script for Donald Trump'...	NaN	Donald J. Trump is scheduled to make a highly ...	0

In [8]:

```
## Get the Independent Features
X=df.drop('label',axis=1)
```

In [9]:

```
X.head()
```

Out[9]:

	id	title	author	text
0	0	House Dem Aide: We Didn't Even See Comey's Let...	Darrell Lucas	House Dem Aide: We Didn't Even See Comey's Let...
1	1	FLYNN: Hillary Clinton, Big Woman on Campus - ...	Daniel J. Flynn	Ever get the feeling your life circles the rou...
2	2	Why the Truth Might Get You Fired	Consortiumnews.com	Why the Truth Might Get You Fired October 29, ...
3	3	15 Civilians Killed In Single US Airstrike Hav...	Jessica Purkiss	Videos 15 Civilians Killed In Single US Aistr...
4	4	Iranian woman jailed for fictional unpublished...	Howard Portnoy	Print \nAn Iranian woman has been sentenced to...

In [10]:

```
## Get the Dependent features
y=df['label']
```

In [11]:

```
y.head()
```

Out[11]:

```
0    1
1    0
2    1
3    1
4    1
Name: label, dtype: int64
```

In [12]:

```
df.shape
```

Out[12]:

(20800, 5)

In [13]:

```
from sklearn.feature_extraction.text import CountVectorizer, TfidfVectorizer
```

In [14]:

```
df=df.dropna()
```

In [15]:

```
df.shape
```

Out[15]:

(18285, 5)

In [16]:

```
df.head(10)
```

Out[16]:

	id	title	author	text	label
0	0	House Dem Aide: We Didn't Even See Comey's Let...	Darrell Lucas	House Dem Aide: We Didn't Even See Comey's Let...	1
1	1	FLYNN: Hillary Clinton, Big Woman on Campus - ...	Daniel J. Flynn	Ever get the feeling your life circles the rou...	0
2	2	Why the Truth Might Get You Fired	Consortiumnews.com	Why the Truth Might Get You Fired October 29, ...	1
3	3	15 Civilians Killed In Single US Airstrike Hav...	Jessica Purkiss	Videos 15 Civilians Killed In Single US Aistr...	1
4	4	Iranian woman jailed for fictional unpublished...	Howard Portnoy	Print lnAn Iranian woman has been sentenced to...	1
5	5	Jackie Mason: Hollywood Would Love Trump if He...	Daniel Nussbaum	In these trying times, Jackie Mason is the Voi...	0
7	7	Benoît Hamon Wins French Socialist Party's Pre...	Alissa J. Rubin	PARIS — France chose an idealistic, traditi...	0
9	9	A Back-Channel Plan for Ukraine and Russia, Co...	Megan Twohey and Scott Shane	A week before Michael T. Flynn resigned as nat...	0
10	10	Obama's Organizing for Action Partners with So...	Aaron Klein	Organizing for Action, the activist group that...	0
11	11	BBC Comedy Sketch "Real Housewives of ISIS" Ca...	Chris Tomlinson	The BBC produced spoof on the "Real Housewives...	0

In [42]:

```
messages=df.copy()
```

In [43]:

```
messages.reset_index(inplace=True)
```

In [44]:

```
messages.head(10)
```

Out[44]:

index	id	title	author	text	label
0	0	House Dem Aide: We Didn't Even See Comey's Let...	Darrell Lucus	House Dem Aide: We Didn't Even See Comey's Let...	1
1	1	FLYNN: Hillary Clinton, Big Woman on Campus - ...	Daniel J. Flynn	Ever get the feeling your life circles the rou...	0
2	2	Why the Truth Might Get You Fired	Consortiumnews.com	Why the Truth Might Get You Fired October 29, ...	1
3	3	15 Civilians Killed In Single US Airstrike Hav...	Jessica Purkiss	Videos 15 Civilians Killed In Single US Aistr...	1
4	4	Iranian woman jailed for fictional unpublished...	Howard Portnoy	Print \nAn Iranian woman has been sentenced to...	1
5	5	Jackie Mason: Hollywood Would Love Trump if He...	Daniel Nussbaum	In these trying times, Jackie Mason is the Voi...	0
6	7	Benoît Hamon Wins French Socialist Party's Pre...	Alissa J. Rubin	PARIS — France chose an idealistic, traditi...	0
7	9	A Back-Channel Plan for Ukraine and Russia, Co...	Megan Twohey and Scott Shane	A week before Michael T. Flynn resigned as nat...	0
8	10	Obama's Organizing for Action Partners with So...	Aaron Klein	Organizing for Action, the activist group that...	0
9	11	BBC Comedy Sketch "Real Housewives of ISIS" Ca...	Chris Tomlinson	The BBC produced spoof on the "Real Housewives...	0

In [45]:

```
messages['title'][6]
```

Out[45]:

```
'Benoît Hamon Wins French Socialist Party's Presidential Nomination - The New York Times'
```

In [21]:

```
from nltk.corpus import stopwords
from nltk.stem.porter import PorterStemmer
import re
ps = PorterStemmer()
corpus = []
for i in range(0, len(messages)):
    review = re.sub('[^a-zA-Z]', ' ', messages['title'][i])
    review = review.lower()
    review = review.split()

    review = [ps.stem(word) for word in review if not word in stopwords.words('english')]
    review = ' '.join(review)
    corpus.append(review)
```

In [22]:

```
corpus[3]
```

Out[22]:

```
'civilian kill singl us airstrik identifi'
```

In [46]:

```
## Applying Countvectorizer
# Creating the Bag of Words model
from sklearn.feature_extraction.text import CountVectorizer
cv = CountVectorizer(max_features=5000, ngram_range=(1,3))
X = cv.fit_transform(corpus).toarray()
```

In [47]:

```
X.shape
```

Out[47]:

```
(18285, 5000)
```

In [48]:

```
y=messages['label']
```

In [49]:

```
## Divide the dataset into Train and Test
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.33, random_state=0)
```

In [27]:

```
cv.get_feature_names()[:20]
```

Out[27]:

```
['abandon',
 'abc',
 'abc news',
 'abduct',
 'abe',
 'abedin',
 'abl',
 'abort',
 'abroad',
 'absolut',
 'abstain',
 'absurd',
 'abus',
 'abus new',
 'abus new york',
 'academi',
 'accept',
 'access',
 'access pipelin',
 'access pipelin protest']
```

In [50]:

```
cv.get_params()
```

Out[50]:

```
{'analyzer': 'word',
 'binary': False,
 'decode_error': 'strict',
 'dtype': numpy.int64,
 'encoding': 'utf-8',
 'input': 'content',
 'lowercase': True,
 'max_df': 1.0,
 'max_features': 5000,
 'min_df': 1,
 'ngram_range': (1, 3),
 'preprocessor': None,
 'stop_words': None,
 'strip_accents': None,
 'token_pattern': '(?u)\\b\\w+\\b',
 'tokenizer': None,
 'vocabulary': None}
```

In [51]:

```
count_df = pd.DataFrame(X_train, columns=cv.get_feature_names())
```

In [52]:

```
count_df.head()
```

Out[52]:

	abandon	abc	abc news	abduct	abe	abedin	abl	abort	abroad	absolut	...	zero	zika	zika viru	zionist	zone	zone new	zone new york	zoo	zu	zuch
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	
2		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	
4		0	0	0	0	0	0	0	0	1	...	0	0	0	0	0	0	0	0	0	

5 rows × 5000 columns

In [53]:

```
import matplotlib.pyplot as plt
```

In [54]:

```
def plot_confusion_matrix(cm, classes,
                           normalize=False,
                           title='Confusion matrix',
                           cmap=plt.cm.Blues):

    plt.imshow(cm, interpolation='nearest', cmap=cmap)
    plt.title(title)
    plt.colorbar()
    tick_marks = np.arange(len(classes))
    plt.xticks(tick_marks, classes, rotation=45)
    plt.yticks(tick_marks, classes)

    if normalize:
        cm = cm.astype('float') / cm.sum(axis=1)[:, np.newaxis]
        print("Normalized confusion matrix")
    else:
        print('Confusion matrix, without normalization')

    thresh = cm.max() / 2.
    for i, j in itertools.product(range(cm.shape[0]), range(cm.shape[1])):
        plt.text(j, i, cm[i, j],
                 horizontalalignment="center",
                 color="white" if cm[i, j] > thresh else "black")

    plt.tight_layout()
    plt.ylabel('True label')
    plt.xlabel('Predicted label')
```

## MultinomialNB Algorithm

In [55]:

```
from sklearn.naive_bayes import MultinomialNB
classifier=MultinomialNB()
```

In [56]:

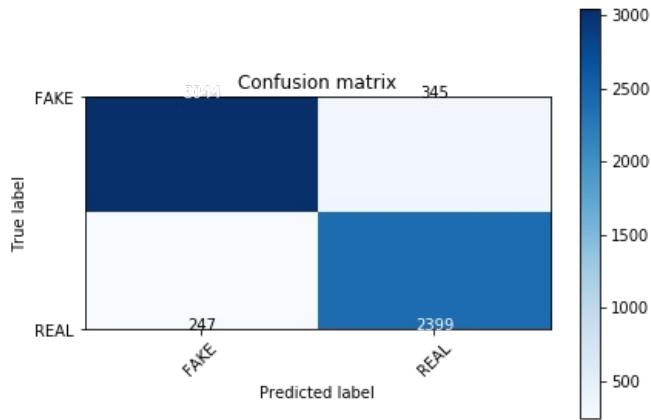
```
from sklearn import metrics
import numpy as np
import itertools
```

In [57]:

```
classifier.fit(X_train, y_train)
pred = classifier.predict(X_test)
score = metrics.accuracy_score(y_test, pred)
print("accuracy:  %0.3f" % score)
cm = metrics.confusion_matrix(y_test, pred)
plot_confusion_matrix(cm, classes=['FAKE', 'REAL'])
```

accuracy: 0.902

Confusion matrix, without normalization



```
classifier.fit(X_train, y_train)
pred = classifier.predict(X_test)
score = metrics.accuracy_score(y_test, pred)
print("accuracy: %0.3f" % score)
cm = metrics.confusion_matrix(y_test, pred)
plot_confusion_matrix(cm, classes=['FAKE', 'REAL'])
```

In [43]:

```
classifier.fit(X_train, y_train)
pred = classifier.predict(X_test)
score = metrics.accuracy_score(y_test, pred)
score
```

Out[43]:

0.9019055509527755

In [44]:

```
y_train.shape
```

Out[44]:

(12250,)

## Multinomial Classifier with Hyperparameter

In [46]:

```
previous_score=0
for alpha in np.arange(0,1,0.1):
    sub_classifier=MultinomialNB(alpha=alpha)
    sub_classifier.fit(X_train,y_train)
    y_pred=sub_classifier.predict(X_test)
    score = metrics.accuracy_score(y_test, y_pred)
    if score>previous_score:
        classifier=sub_classifier
    print("Alpha: {}, Score : {}".format(alpha,score))
```

C:\Users\sainath\Anaconda3\lib\site-packages\sklearn\naive\_bayes.py:485: UserWarning: alpha too small will result in numeric errors, setting alpha = 1.0e-10  
'setting alpha = %.1e' % \_ALPHA\_MIN)

```
Alpha: 0.0, Score : 0.8903065451532726
Alpha: 0.1, Score : 0.9020712510356255
Alpha: 0.2, Score : 0.9025683512841757
Alpha: 0.30000000000000004, Score : 0.9024026512013256
Alpha: 0.4, Score : 0.9017398508699255
Alpha: 0.5, Score : 0.9015741507870754
Alpha: 0.6000000000000001, Score : 0.9022369511184756
Alpha: 0.7000000000000001, Score : 0.9025683512841757
Alpha: 0.8, Score : 0.9015741507870754
Alpha: 0.9, Score : 0.9017398508699255
```

In [47]:

```
## Get Features names
feature_names = cv.get_feature_names()
```

In [48]:

```
classifier.coef_[0]
```

Out[48]:

```
array([ -9.10038883,  -8.62276128,  -9.10038883, ..., -10.79498456,
        -8.91467169,  -9.32864749])
```

In [49]:

```
### Most real
sorted(zip(classifier.coef_[0], feature_names), reverse=True)[:20]
```

Out[49]:

```
[(-4.000149156604985, 'trump'),
 (-4.287872694443541, 'hillari'),
 (-4.396389621061519, 'clinton'),
 (-4.899969726208735, 'elect'),
 (-5.176598600897756, 'new'),
 (-5.234730366348767, 'comment'),
 (-5.273968180973631, 'video'),
 (-5.3868167681180115, 'war'),
 (-5.396821854078974, 'us'),
 (-5.412019714988405, 'hillari clinton'),
 (-5.417137433425386, 'fbi'),
 (-5.48068448454208, 'vote'),
 (-5.566255475855405, 'email'),
 (-5.578238842742501, 'world'),
 (-5.634015380199913, 'obama'),
 (-5.734501455772904, 'donald'),
 (-5.763095255139644, 'donald trump'),
 (-5.785090276725191, 'russia'),
 (-5.846224665218559, 'day'),
 (-5.862110622807369, 'america')]
```

In [53]:

```
### Most fake
sorted(zip(classifier.coef_[0], feature_names))[:2000]
```

Out[53]:

```
[(-10.794984555596727, 'abe'),
 (-10.794984555596727, 'abroad'),
 (-10.794984555596727, 'abus new'),
 (-10.794984555596727, 'abus new york'),
 (-10.794984555596727, 'act new'),
 (-10.794984555596727, 'act new york'),
 (-10.794984555596727, 'advic'),
 (-10.794984555596727, 'advis new'),
 (-10.794984555596727, 'advis new york'),
 (-10.794984555596727, 'age new'),
 (-10.794984555596727, 'age new york'),
 (-10.794984555596727, 'agenda breitbart'),
 (-10.794984555596727, 'ail'),
 (-10.794984555596727, 'aleppo new'),
 (-10.794984555596727, 'aleppo new york'),
 (-10.794984555596727, 'ali'),
 (-10.794984555596727, 'america breitbart'),
 (-10.794984555596727, 'america new york'),
 (-10.794984555596727, 'american breitbart'),
 (-10.794984555596727, 'american new'),
 (-10.794984555596727, 'american new york'),
 (-10.794984555596727, 'ami'),
 (-10.794984555596727, 'ami schumer'),
 (-10.794984555596727, 'amp'),
 (-10.794984555596727, 'ann'),
 (-10.794984555596727, 'ann coulter'),
 (-10.794984555596727, 'applaud'),
 (-10.794984555596727, 'arson'),
 (-10.794984555596727, 'asian'),
 (-10.794984555596727, 'assail'),
 (-10.794984555596727, 'athlet'),
 (-10.794984555596727, 'attack breitbart'),
 (-10.794984555596727, 'attack new'),
 (-10.794984555596727, 'attack new york'),
 (-10.794984555596727, 'attack syria'),
 (-10.794984555596727, 'attend')]
```

(-10.794984555596727, 'attend '),  
(-10.794984555596727, 'avert'),  
(-10.794984555596727, 'away new'),  
(-10.794984555596727, 'away new york'),  
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(-10.794984555596727, 'brief new'),  
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(-10.794984555596727, 'chang new york'),



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 (-10.794984555596727, 'countri breitbart'),  
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