

```
In [7]: import nltk  
nltk.download()
```

```
showing info https://raw.githubusercontent.com/nltk/nltk_data/gh-pages/index.xml
```

```
Out[7]: True
```

```
In [8]: from nltk.corpus import stopwords  
stopwords = stopwords.words('english')
```

```
In [9]: # Read in the raw text  
rawData = open("SMSSpamCollection.tsv").read()  
  
# Print the raw data  
rawData[0:500]
```

```
Out[9]: "ham\tI've been searching for the right words to thank you for this breather.  
I promise i wont take your help for granted and will fulfil my promise. You h  
ave been wonderful and a blessing at all times.\nspam\tFree entry in 2 a wkly  
comp to win FA Cup final tkts 21st May 2005. Text FA to 87121 to receive entr  
y question(std txt rate)T&C's apply 08452810075over18's\nham\tNah I don't thi  
nk he goes to usf, he lives around here though\nham\tEven my brother is not l  
ike to speak with me. They treat me like aid"
```

```
In [10]: ParsedData = rawData.replace('\t','\n').split('\n')
```

```
In [11]: ParsedData[0:5]
```

```
Out[11]: ['ham',  
          "I've been searching for the right words to thank you for this breather. I p  
romise i wont take your help for granted and will fulfil my promise. You have  
been wonderful and a blessing at all times.",  
          'spam',  
          "Free entry in 2 a wkly comp to win FA Cup final tkts 21st May 2005. Text FA  
to 87121 to receive entry question(std txt rate)T&C's apply 08452810075over1  
8's",  
          'ham']
```

```
In [12]: labelList = ParsedData[0::2]  
Textlist = ParsedData[1::2]
```

```
In [13]: print(labelList[0:5])
```

```
['ham', 'spam', 'ham', 'ham', 'ham']
```

In [14]: `print(Textlist[0:5])`

["I've been searching for the right words to thank you for this breather. I promise i wont take your help for granted and will fulfil my promise. You have been wonderful and a blessing at all times.", "Free entry in 2 a wkly comp to win FA Cup final tkts 21st May 2005. Text FA to 87121 to receive entry questi on(std txt rate)T&C's apply 08452810075over18's", "Nah I don't think he goes to usf, he lives around here though", 'Even my brother is not like to speak with me. They treat me like aids patent.', 'I HAVE A DATE ON SUNDAY WITH WIL L!!']

In [15]: `import pandas as pd`

In [16]: `fullcorpus = pd.DataFrame({
 'label' : labelList[:-1],
 'Body' : Textlist
})
fullcorpus.head(5)`

Out[16]:

	label	Body
0	ham	I've been searching for the right words to tha...
1	spam	Free entry in 2 a wkly comp to win FA Cup fina...
2	ham	Nah I don't think he goes to usf, he lives aro...
3	ham	Even my brother is not like to speak with me. ...
4	ham	I HAVE A DATE ON SUNDAY WITH WILL!!

In [17]: `dataset = pd.read_csv('SMSSpamCollection.tsv', sep='\t', header=None)
dataset.head(5)`

Out[17]:

	0	1
0	ham	I've been searching for the right words to tha...
1	spam	Free entry in 2 a wkly comp to win FA Cup fina...
2	ham	Nah I don't think he goes to usf, he lives aro...
3	ham	Even my brother is not like to speak with me. ...
4	ham	I HAVE A DATE ON SUNDAY WITH WILL!!

In [18]: `#Shape of the data
print("Input data has {}rows and {}columns".format(len(fullcorpus), len(fullcorpus.columns)))`

Input data has 5570rows and 2columns

```
In [19]: #Number of ham/spam
print("Out of {}rows,{} are ham and {} are spam".format(len(fullcorpus),
                                                       len(fullcorpus[fullcorpus['label'] == 'spam']),
                                                       len(fullcorpus[fullcorpus['label'] == 'ham'])))
```

Out of 5570rows,746 are ham and 4824 are spam

```
In [20]: print("Missing data {}label".format(fullcorpus['label'].isnull().sum()))
print("Missing data {}body".format(fullcorpus['Body'].isnull().sum()))
```

Missing data 0label
Missing data 0body

```
In [21]: import re
import string
string.punctuation
```

Out[21]: '!"#\$%&\'()*+,-./:;<=>?@[\\]^_`{|}~'

```
In [22]: def remove_punc(text):
    text_nonpunct = "".join([char for char in text if char not in string.punctuation])
    return(text_nonpunct)
fullcorpus['body_text_clean'] = fullcorpus['Body'].apply(lambda x: remove_punc(x))
```

In [23]: fullcorpus.head(5)

Out[23]:

	label	Body	body_text_clean
0	ham	I've been searching for the right words to tha...	Ive been searching for the right words to than...
1	spam	Free entry in 2 a wkly comp to win FA Cup fina...	Free entry in 2 a wkly comp to win FA Cup fina...
2	ham	Nah I don't think he goes to usf, he lives aro...	Nah I dont think he goes to usf he lives aroun...
3	ham	Even my brother is not like to speak with me. ...	Even my brother is not like to speak with me T...
4	ham	I HAVE A DATE ON SUNDAY WITH WILL!!	I HAVE A DATE ON SUNDAY WITH WILL

```
In [24]: def token(text):
    tokens = re.split('\W+', text)
    return tokens
fullcorpus['body_text_clean'] = fullcorpus['body_text_clean'].apply(lambda x:
token(x.lower()))
fullcorpus.head(5)
```

Out[24]:

	label	Body	body_text_clean
0	ham	I've been searching for the right words to tha...	[ive, been, searching, for, the, right, words,...]
1	spam	Free entry in 2 a wkly comp to win FA Cup fina...	[free, entry, in, 2, a, wkly, comp, to, win, f...
2	ham	Nah I don't think he goes to usf, he lives aro...	[nah, i, dont, think, he, goes, to, usf, he, l...
3	ham	Even my brother is not like to speak with me. ...	[even, my, brother, is, not, like, to, speak, ...]
4	ham	I HAVE A DATE ON SUNDAY WITH WILL!!	[i, have, a, date, on, sunday, with, will]

```
In [25]: def remove_stopwords(text):
    text_stopword = [word for word in text if word not in stopwords]
    return(text_stopword)
fullcorpus['body_text_clean'] = fullcorpus['body_text_clean'].apply(lambda x:
remove_stopwords(x))
```

In [26]: fullcorpus.head(5)

Out[26]:

	label	Body	body_text_clean
0	ham	I've been searching for the right words to tha...	[ive, searching, right, words, thank, breather...]
1	spam	Free entry in 2 a wkly comp to win FA Cup fina...	[free, entry, 2, wkly, comp, win, fa, cup, fin...
2	ham	Nah I don't think he goes to usf, he lives aro...	[nah, dont, think, goes, usf, lives, around, t...
3	ham	Even my brother is not like to speak with me. ...	[even, brother, like, speak, treat, like, aids...]
4	ham	I HAVE A DATE ON SUNDAY WITH WILL!!	[date, sunday]

```
In [27]: import nltk
stem = nltk.PorterStemmer()
wn = nltk.WordNetLemmatizer()
```

```
In [28]: def stemming(text):
    text_stem = [stem.stem(word) for word in text]
    return(text_stem)
fullcorpus['body_text_clean'] = fullcorpus['body_text_clean'].apply(lambda x:
stemming(x))
```

In [29]: `fullcorpus.head(5)`

Out[29]:

	label	Body	body_text_clean
0	ham	I've been searching for the right words to tha...	[ive, search, right, word, thank, breather, pr...
1	spam	Free entry in 2 a wkly comp to win FA Cup fina...	[free, entri, 2, wkli, comp, win, fa, cup, fin...
2	ham	Nah I don't think he goes to usf, he lives aro...	[nah, dont, think, goe, usf, live, around, tho...
3	ham	Even my brother is not like to speak with me. ...	[even, brother, like, speak, treat, like, aid,...
4	ham	I HAVE A DATE ON SUNDAY WITH WILL!!	[date, sunday]

In [30]: `def lemmatize(text):
 text_lemmatize = [wn.lemmatize(word) for word in text]
 return(text_lemmatize)
fullcorpus['body_text_clean'] = fullcorpus['body_text_clean'].apply(lambda x:
 lemmatize(x))`

In [31]: `fullcorpus.head(5)`

Out[31]:

	label	Body	body_text_clean
0	ham	I've been searching for the right words to tha...	[ive, search, right, word, thank, breather, pr...
1	spam	Free entry in 2 a wkly comp to win FA Cup fina...	[free, entri, 2, wkli, comp, win, fa, cup, fin...
2	ham	Nah I don't think he goes to usf, he lives aro...	[nah, dont, think, goe, usf, live, around, tho...
3	ham	Even my brother is not like to speak with me. ...	[even, brother, like, speak, treat, like, aid,...
4	ham	I HAVE A DATE ON SUNDAY WITH WILL!!	[date, sunday]

In [32]: `def clean_text(text):
 text = "".join([word.lower() for word in text if word not in string.punctuation])
 tokens = re.split('\W+', text)
 text = " ".join([stem.stem(word) for word in tokens if word not in stopwords])
 return(text)`

In [33]: `from sklearn.feature_extraction.text import CountVectorizer
count_vect = CountVectorizer(analyzer=clean_text)
x_count = count_vect.fit_transform(fullcorpus['Body'])
print(x_count.shape)
print(count_vect.get_feature_names())`

```
(5570, 45)
[' ', '0', '1', '2', '3', '4', '5', '6', '7', '8', '9', 'a', 'b', 'c', 'd',
'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r', 's',
't', 'u', 'v', 'w', 'x', 'y', 'z', 'ø', '%', '%', 'â', 'ã', 'é', 'œ', '^']
```

```
In [34]: data_sample = fullcorpus[0:20]
count_vect_sample = CountVectorizer(analyzer=clean_text)
x_count_sample = count_vect_sample.fit_transform(data_sample['Body'])
print(x_count_sample.shape)
```

(20, 41)

```
In [35]: x_count_df = pd.DataFrame(x_count_sample.toarray())
x_count_df
```

Out[35]:

	0	1	2	3	4	5	6	7	8	9	...	31	32	33	34	35	36	37	38	39	40
0	15	0	0	0	0	0	0	0	0	0	...	1	1	3	0	0	0	0	0	0	0
1	22	5	5	5	0	1	3	0	2	4	...	2	2	2	2	1	0	0	0	0	0
2	7	0	0	0	0	0	0	0	0	0	...	3	1	0	0	0	0	0	0	0	0
3	7	0	0	0	0	0	0	0	0	0	...	0	1	0	0	0	0	0	0	0	0
4	1	0	0	0	0	0	0	0	0	0	...	1	0	0	0	1	0	0	0	0	0
5	15	0	0	0	0	0	0	0	0	0	...	8	1	0	0	0	0	0	0	0	0
6	18	5	5	1	1	2	0	2	1	0	...	3	3	3	0	0	1	0	0	1	0
7	17	5	2	1	1	0	0	1	0	2	...	4	0	0	0	0	0	0	0	0	0
8	14	0	0	0	0	0	0	0	0	0	...	2	1	1	0	2	0	0	0	0	0
9	20	7	5	1	0	1	3	2	2	1	...	1	0	1	2	2	0	0	0	0	0
10	17	8	6	0	1	2	0	0	1	2	...	2	0	7	2	0	1	0	0	1	0
11	11	0	0	0	0	0	0	0	0	0	...	3	2	2	8	0	0	0	0	0	0
12	2	0	0	0	0	0	0	0	0	0	...	0	0	1	0	0	0	0	0	0	0
13	11	0	0	1	0	0	0	0	0	0	...	2	2	1	0	1	0	0	0	0	0
14	8	0	0	0	0	0	0	0	0	0	...	1	0	2	0	2	0	0	0	2	0
15	19	4	2	1	1	3	2	2	6	2	...	1	1	4	4	1	0	1	0	0	1
16	2	0	0	0	0	0	0	0	0	0	...	1	0	0	0	0	0	0	0	0	0
17	7	0	0	1	0	0	0	0	0	0	...	0	0	0	0	0	0	0	0	1	0
18	6	0	0	0	0	0	0	0	0	0	...	0	0	0	0	1	0	0	1	0	1
19	14	0	0	0	1	0	0	0	0	0	...	4	0	0	0	0	0	0	0	0	0

20 rows × 41 columns

In [36]:

```
x_count_df.columns = count_vect_sample.get_feature_names()
x_count_df
```

Out[36]:

	0	1	2	3	4	5	6	7	8	...	u	v	w	x	y	z	\circ	$\frac{1}{4}$	\hat{a}	\tilde{a}
0	15	0	0	0	0	0	0	0	0	...	1	1	3	0	0	0	0	0	0	0
1	22	5	5	5	0	1	3	0	2	4	...	2	2	2	2	1	0	0	0	0
2	7	0	0	0	0	0	0	0	0	0	...	3	1	0	0	0	0	0	0	0
3	7	0	0	0	0	0	0	0	0	0	...	0	1	0	0	0	0	0	0	0
4	1	0	0	0	0	0	0	0	0	0	...	1	0	0	0	1	0	0	0	0
5	15	0	0	0	0	0	0	0	0	0	...	8	1	0	0	0	0	0	0	0
6	18	5	5	1	1	2	0	2	1	0	...	3	3	3	0	0	1	0	0	1
7	17	5	2	1	1	0	0	1	0	2	...	4	0	0	0	0	0	0	0	0
8	14	0	0	0	0	0	0	0	0	0	...	2	1	1	0	2	0	0	0	0
9	20	7	5	1	0	1	3	2	2	1	...	1	0	1	2	2	0	0	0	0
10	17	8	6	0	1	2	0	0	1	2	...	2	0	7	2	0	1	0	0	1
11	11	0	0	0	0	0	0	0	0	0	...	3	2	2	8	0	0	0	0	0
12	2	0	0	0	0	0	0	0	0	0	...	0	0	1	0	0	0	0	0	0
13	11	0	0	1	0	0	0	0	0	0	...	2	2	1	0	1	0	0	0	0
14	8	0	0	0	0	0	0	0	0	0	...	1	0	2	0	2	0	0	0	2
15	19	4	2	1	1	3	2	2	6	2	...	1	1	4	4	1	0	1	0	0
16	2	0	0	0	0	0	0	0	0	0	...	1	0	0	0	0	0	0	0	0
17	7	0	0	1	0	0	0	0	0	0	...	0	0	0	0	0	0	0	1	0
18	6	0	0	0	0	0	0	0	0	0	...	0	0	0	0	1	0	0	1	0
19	14	0	0	0	1	0	0	0	0	0	...	4	0	0	0	0	0	0	0	0

20 rows \times 41 columns

In [37]:

```
data_sample = fullcorpus[0:20]
ngram_count_vect_sample = CountVectorizer(ngram_range=(2,2))
x_count_sample_ngram = ngram_count_vect_sample.fit_transform(data_sample['Body'])
print(x_count_sample_ngram.shape)
```

(20, 334)

```
In [38]: x_count_ngram_df = pd.DataFrame(x_count_sample_ngram.toarray())
x_count_ngram_df.columns = ngram_count_vect_sample.get_feature_names()
print(ngram_count_vect_sample.get_feature_names())
```

['000 pounds', '000 prize', '09061701461 claim', '100 000', '100 to', '11 months', '12 hours', '150p day', '16 tsandcs', '20 000', '20 poboxox36504w45wq', '2005 text', '21st may', '4txt äº1', '6days 16', '81010 www', '87077 eg', '87 077 try', '87121 to', '87575 cost', '900 prize', 'about this', 'aft finish', 'aids patent', 'all callers', 'all times', 'and blessing', 'and don', 'and second', 'and will', 'anymore tonight', 'apply 08452810075over18', 'apply reply', 'ard smth', 'around here', 'as per', 'as valued', 'as your', 'at all', 'be home', 'been searching', 'been selected', 'been set', 'been wonderful', 'blessing at', 'breather promise', 'brother is', 'call 09061701461', 'call the', 'callers press', 'callertune for', 'camera for', 'cash from', 'chances to', 'claim call', 'claim code', 'claim to', 'click here', 'click the', 'co free', 'code k1341', 'colour mobiles', 'com qjkgighjjgcbl', 'comp to', 'copy your', 'cost 150p', 'credit click', 'cried enough', 'csh11 and', 'cup final', 'customer you', 'da stock', 'date on', 'day 6days', 'dbuk net', 'did he', 'don think', 'don want', 'dont miss', 'down lor', 'eg england', 'eh remember', 'england macedonia', 'england to', 'enough today', 'entitled to', 'entry in', 'entry question', 'even my', 'fa cup', 'fa to', 'feel thatâ', 'final tkts', 'fine if', 'finish my', 'finish ur', 'first lar', 'for all', 'for free', 'for granted', 'for months', 'for the', 'for this', 'free call', 'free entry', 'free membership', 'free on', 'friends callertune', 'from 100', 'fulfil my', 'go str', 'go als team', 'goes to', 'going to', 'gonna be', 'granted and', 'ha ha', 'ha only', 'had your', 'has been', 'have been', 'have date', 'have won', 'he goes', 'he lives', 'he naughty', 'help for', 'here http', 'here though', 'his name', 'hl info', 'home soon', 'hours only', 'how spell', 'how you', 'http wap', 'if thatâ', 'in our', 'in the', 'in wkly', 'is da', 'is not', 'is that', 'its got a', 'iâ going', 'jackpot txt', 'k1341 valid', 'lar then', 'latest colour', 'lcc ltd pobox', 'like aids', 'like to', 'link in', 'lives around', 'lor ard', 'lor finish', 'lunch already', 'lunch then', 'macedonia dont', 'make until', 'may 2005', 'me like', 'me they', 'melle melle', 'melle oru', 'membership in', 'message or', 'minnaminunginte nurungu', 'miss the', 'mobile 11', 'mobile update', 'mobiles with', 'months ha', 'months or', 'more entitled', 'my brother', 'my lunch', 'my promise', 'nah don', 'name yes', 'national team', 'naughty make', 'net lccltd', 'network customer', 'news txt', 'next txt', 'no 8101 0', 'not like', 'nurungu vettam', 'oh watching', 'on 08002986030', 'on sunday', 'only joking', 'or click', 'or more', 'oru minnaminunginte', 'our 100', 'pay first', 'per your', 'pobox 4403ldnw1a7rw18', 'poboxox36504w45wq 16', 'pounds txt', 'press to', 'prize jackpot', 'prize reward', 'promise wont', 'promise you', 'question std', 'rate apply', 'receive entry', 'receivea 900', 'remember how', 'reply hl', 'request melle', 'reward to', 'right words', 'scotland 4txt', 'searching for', 'selected to', 'send to', 'seriously how', 'set a s', 'six chances', 'smth lor', 'so ä%', 'soon and', 'speak with', 'spell his', 'std txt', 'stock comin', 'str down', 'stuff anymore', 'sunday with', 'take your', 'talk about', 'team news', 'team to', 'text fa', 'thank you', 'that seriously', 'thatâ the', 'the goals', 'the latest', 'the mobile', 'the next', 'the right', 'the wap', 'the way', 'the word', 'then go', 'then when', 'they treat', 'think he', 'this breather', 'this stuff', 'tkts 21st', 'to 20', 'to 87077', 'to 87121', 'to 87575', 'to claim', 'to copy', 'to no', 'to receive', 'to receivea', 'to speak', 'to talk', 'to thank', 'to the', 'to try', 'to update', 'to use', 'to usf', 'to win', 'tonight ve', 'treat me', 'try for', 'try wales', 'tsandcs apply', 'txt csh11', 'txt message', 'txt rate', 'txt the', 'txt ur', 'until wet', 'update co', 'update to', 'ur lunch', 'ur national', 'urgent you', 'use your', 'usf he', 'valid 12', 'valued network', 've been', 've cried', 'vettam has', 'wales scotland', 'want to', 'wap link', 'wap xxxmobilemovieclub', 'watching here', 'way feel', 'way its', 'week free', 'when is', 'will fulfil', 'win cash', 'win fa', 'winner as', 'with camera', 'with me', 'with will', 'wkly comp', 'won week', 'wonderful and', 'wont take', 'word claim', 'words to', 'www dbuk', 'xxxmobilemovieclub com', 'xxxmobilemovieclub

```
to', 'yes did', 'you for', 'you have', 'you spell', 'your callertune', 'your credit', 'your friends', 'your help', 'your mobile', 'your request', '1 2 0', '% pay']
```

```
In [39]: def clean_text(text):
    text = "".join([word.lower() for word in text if word not in string.punctuation])
    tokens = re.split('\W+', text)
    text = [stem.stem(word) for word in tokens if word not in stopwords]
    return(text)
```

```
In [40]: from sklearn.feature_extraction.text import TfidfVectorizer
tfidf_vect = TfidfVectorizer(analyzer=clean_text)
x_tfidf = tfidf_vect.fit_transform(fullcorpus['Body'])
print(x_tfidf.shape)
print(tfidf_vect.get_feature_names())
```

(5570, 8151)

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t', 'result', 'resum', 'retard', 'retir', 'retriev', 'return', 'reunion', 'reveal', 'revers', 'review', 'revis', 'reward', 'rg21', 'rgd', 'rgent', 'rhode', 'rhythm', 'rice', 'rich', 'riddanc', 'ridden', 'ride', 'right', 'rightio', 'rightli', 'riley', 'rimac', 'ring', 'ringsreturn', 'rington', 'ringtonef rom', 'ringtoneget', 'ringtonek', 'ringtoneâ', 'rinu', 'rip', 'rise', 'risk', 'rite', 'ritten', 'river', 'ro', 'road', 'roadsrvx', 'roast', 'rob', 'robinson', 'rock', 'rodds1', 'rodger', 'rofl', 'roger', 'role', 'roll', 'roller', 'romant', 'romcapspam', 'ron', 'room', 'roomat', 'roommat', 'rose', 'rough', 'round', 'rounderso', 'rout', 'row', 'roww1j6hl', 'roww1jhl', 'royal', 'rp17678 1', 'rpl', 'rpli', 'rr', 'rreveal', 'rs', 'rs5', 'rsi', 'rstm', 'rtking', 'rt m', 'rto', 'ru', 'rub', 'rubber', 'rude', 'rudi', 'rugbi', 'ruin', 'rule', 'rum', 'rumbl', 'rummer', 'rumour', 'run', 'runninglet', 'rupaul', 'rush', 'rv', 'ryan', 'ryder', 's3xi', 's8', 's89', 'sac', 'sachin', 'sachinjust', 'sack', 'sacrific', 'sad', 'sae', 'saeed', 'safe', 'safeti', 'sagamu', 'saibaba', 'said', 'saidif', 'sake', 'salad', 'salam', 'salari', 'sale', 'salesman', 'salespe', 'sall', 'salmon', 'salon', 'salt', 'sam', 'samachara', 'samantha', 'sambarlif', 'sameso', 'samu', 'sandiago', 'sane', 'sang', 'sankranti', 'santa', 'santha', 'sao', 'sapna', 'sar', 'sara', 'sarasota', 'sarcasm', 'sarcas t', 'sari', 'saristar', 'sariyag', 'sashimi', 'sat', 'satan', 'sathi', 'sathy a', 'satisfi', 'satjust', 'satlov', 'satgettin', 'satsoundâ', 'satthen', 'sat turday', 'satâ%', 'sauci', 'sausagelov', 'savamob', 'save', 'saw', 'say', 'sayask', 'sayhey', 'sayi', 'sayin', 'sbut', 'sc', 'scalli', 'scammer', 'scarcas im', 'scare', 'scari', 'scenario', 'sceneri', 'sch', 'schedul', 'school', 'scienc', 'scold', 'scool', 'scorabl', 'score', 'scotch', 'scotland', 'scotsma n', 'scous', 'scrape', 'scrappi', 'scratch', 'scream', 'screen', 'screwd', 'scroung', 'scrumptiou', 'sculptur', 'sd', 'sday', 'sdryb8i', 'se', 'sea', 'search', 'season', 'seat', 'sec', 'second', 'secondari', 'secret', 'secretari', 'secretli', 'section', 'secur', 'sed', 'see', 'seed', 'seek', 'seeker', 'seen', 'seeno', 'sef', 'seh', 'sehwag', 'select', 'self', 'selfindepen d', 'selfish', 'selfless', 'sell', 'sem', 'semest', 'semi', 'semiobscur', 'sen', 'send', 'sender', 'sendernam', 'senor', 'senrddnot', 'sens', 'sensesrespe ct', 'sensibl', 'sensit', 'sent', 'sentdat', 'sentenc', 'senthil', 'senthilhs bc', 'seperatedé^', 'sept', 'septemb', 'serena', 'seri', 'seriou', 'serious', 'serv', 'server', 'servic', 'set', 'settl', 'seven', 'seventeen', 'sever', 'sex', 'sexi', 'sexiest', 'sextetukcom', 'sexual', 'sexychat', 'sez', 'sf', 'sfine', 'sfirst', 'sfrom', 'sh', 'sha', 'shade', 'shadow', 'shag', 'shah', 'sh ahjahan', 'shakara', 'shake', 'shakespear', 'shall', 'shame', 'shampain', 'sh angela', 'shanghai', 'shamilrakhesh', 'shant', 'shape', 'share', 'shatter', 'shave', 'shb', 'shd', 'she', 'sheet', 'sheffield', 'shelf', 'shell', 'shel v', 'sherawat', 'shesil', 'shexi', 'shhhh', 'shi', 'shifad', 'shija', 'shiju tta', 'shinco', 'shindig', 'shine', 'shini', 'ship', 'shirt', 'shit', 'shite', 'shitin', 'shitjustfound', 'shitload', 'shitstorm', 'shivratri', 'shja', 'shld', 'shldxxxx', 'shock', 'shoe', 'shola', 'shoot', 'shop', 'shoppin', 'sh ophth', 'shopw', 'shoranur', 'shore', 'shoreth', 'short', 'shortag', 'shortcod', 'shorter', 'shortli', 'shot', 'shoul', 'shoulder', 'shouldnt', 'shouldnâ', 'shout', 'shove', 'show', 'shower', 'showr', 'showroomsc', 'shracomorsgls uplt10', 'shrek', 'shrink', 'shrub', 'shu', 'shud', 'shudvetold', 'shuhui', 'shun', 'shut', 'si', 'sian', 'sib', 'sic', 'sick', 'sicomo', 'side', 'sif', 'sigh', 'sight', 'sign', 'signal', 'signific', 'signin', 'siguviri', 'silenc', 'silent', 'silli', 'silver', 'sim', 'simonwatson5120', 'simpl', 'simple r', 'simplic', 'simpson', 'simul', 'sinc', 'sinco', 'sindu', 'sing', 'singapo r', 'singl', 'sink', 'sip', 'sipix', 'sir', 'siri', 'sirjii', 'sirsalam', 'sister', 'sit', 'site', 'sitll', 'sitter', 'sittin', 'situat', 'siva', 'sivata t', 'six', 'size', 'sk3', 'sk38xh', 'skalli', 'skateboard', 'skilgm', 'skil l', 'skillgam', 'skillgame1winaweek', 'skin', 'skinni', 'skint', 'skip', 'skirt', 'sky', 'skye', 'skype', 'skyve', 'slaaaaav', 'slack', 'slap', 'slave', 'sleep', 'sleepi', 'sleepin', 'sleepingand', 'sleepingwith', 'sleepsweet',

'sleepwellamptak', 'slept', 'slice', 'slide', 'slightli', 'slip', 'slipper', 'slipperi', 'slo', 'slo4msg', 'slob', 'slot', 'slove', 'slow', 'slower', 'slo wli', 'slurp', 'sm', 'smack', 'small', 'smaller', 'smart', 'smartcal', 'smart er', 'smartthough', 'smash', 'smear', 'smell', 'smeon', 'smidgin', 'smile', 'smiley', 'smith', 'smithswitch', 'smoke', 'smokin', 'smoothli', 'sms0871872 7870', 'smsd', 'smsing', 'smsservic', 'smsshsexnetun', 'smth', 'sn', 'snake', 'snap', 'snappi', 'snatch', 'snd', 'sneham', 'snicker', 'sno', 'snog', 'snori ngthey', 'snow', 'snowbal', 'snowboard', 'snowman', 'snuggl', 'so', 'soani', 'soc', 'socht', 'social', 'sofa', 'soft', 'softwar', 'soil', 'soire', 'sol', 'soladha', 'sold', 'solihul', 'solv', 'some1', 'somebodi', 'someday', 'someo n', 'someonethat', 'someonon', 'someplac', 'somerset', 'someth', 'somethin', 'sometim', 'sometimerakheshvisitor', 'sometm', 'somewhat', 'somewher', 'some wheresomeon', 'somewhr', 'somon', 'somtim', 'sonathaya', 'sonetim', 'song', 'soni', 'sonot', 'sonyericsson', 'soo', 'soon', 'soonc', 'sooner', 'soonlo t', 'soonxxx', 'sooo', 'soooo', 'sooooo', 'sopha', 'sore', 'sori', 'sorri', 'sorrow', 'sorrowsi', 'sorryi', 'sorryin', 'sort', 'sorta', 'sortedbut', 'sor rydarealyfrm', 'soso', 'soul', 'sound', 'soundtrack', 'soup', 'sourc', 'sout h', 'southern', 'souveni', 'soz', 'sp', 'space', 'spacebuck', 'spageddi', 'sp ain', 'spam', 'spanish', 'spare', 'spark', 'sparkl', 'spatula', 'speak', 'spe c', 'special', 'specialcal', 'specialis', 'specif', 'specifi', 'specifi', 'speechless', 'speed', 'speedchat', 'spele', 'spell', 'spend', 'spent', 'spi', 'spice', 'sp ider', 'spiderman', 'spif', 'spile', 'spin', 'spinout', 'spiral', 'spirit', 'spiritu', 'spjanuari', 'spk', 'spl', 'splash', 'splashmobil', 'splat', 'spl endid', 'split', 'splle', 'splwat', 'spoil', 'spoilt', 'spoke', 'spoken', 'sp onson', 'spontan', 'spook', 'spoon', 'sporad', 'sport', 'sportsx', 'spose', 'spot', 'spotti', 'spous', 'sppok', 'spreadsheet', 'spree', 'spring', 'sprin t', 'sprwm', 'sptv', 'sptyron', 'spunout', 'sq825', 'squat', 'squeeeeze', 'sq ueez', 'squid', 'squishi', 'sr', 'sni', 'srsli', 'srt', 'ssi', 'ssindia', 'ss nervou', 'st', 'stabil', 'stabl', 'stadium', 'staff', 'staffscienccenusedusgph yhcmkteachingpc1323', 'stage', 'stagwood', 'stair', 'stalk', 'stamp', 'stan d', 'standard', 'stapati', 'star', 'stare', 'starer', 'starshin', 'start', 'st artedindia', 'starti', 'starv', 'starwars3', 'stash', 'state', 'statement', 'station', 'statu', 'stay', 'stayin', 'std', 'stdtxtrate', 'steak', 'steal', 'steam', 'steamboat', 'steed', 'steer', 'step', 'stereo', 'stereophon', 'ster l', 'sterm', 'steve', 'stevelik', 'stewarts', 'steyn', 'sth', 'sthi', 'stic k', 'sticki', 'stifl', 'stil', 'still', 'stillmayb', 'stink', 'stitch', 'stoc k', 'stockport', 'stolen', 'stomach', 'stomp', 'stone', 'stoner', 'stool', 'stop', 'stop2', 'stop2stop', 'stopbcm', 'stopc', 'stopcost', 'stopctxt', 'stop xtstop', 'stopctxtstopâ', 'store', 'storelik', 'stori', 'storm', 'str', 'str 8', 'straight', 'strain', 'strang', 'stranger', 'strangersaw', 'stream', 'stre et', 'streetshal', 'stress', 'stressful', 'stretch', 'strewn', 'strict', 'stri ke', 'string', 'strip', 'stripe', 'stroke', 'strong', 'strongbuy', 'strongl i', 'strt', 'strtd', 'struggl', 'stu', 'stubborn', 'stuck', 'studdi', 'student', 'studentfinanci', 'studentsthi', 'studi', 'studio', 'studyn', 'stuf', 'stuff', 'stuff42moro', 'stuffleav', 'stuffwhi', 'stun', 'stupid', 'stupidit', 'style', 'stylish', 'stylist', 'sub', 'subject', 'sublet', 'submit', 'subpol i', 'subscrib', 'subscribe6gbpmnth', 'subscript', 'subscriptn3gbpwk', 'subscr it', 'subsequ', 'subtoitl', 'success', 'suck', 'sucker', 'sudden', 'suddenl i', 'sudn', 'sue', 'suffer', 'suffici', 'sugabab', 'suganya', 'sugar', 'sugardad', 'suggest', 'suit', 'suitem', 'sullivan', 'sum', 'sum1', 'sumf', 'summe r', 'summon', 'sumthin', 'sumthinx', 'sun', 'sun0819', 'sunday', 'sundayis h', 'sunlight', 'sunni', 'sunoco', 'sunroof', 'sunscreen', 'sunshin', 'sunte c', 'sup', 'super', 'superb', 'superior', 'supervisor', 'supli', 'supos', 'sup pli', 'supplier', 'support', 'supportprovid', 'supportveri', 'suppos', 'suprem', 'suprman', 'sura', 'sure', 'surf', 'surgic', 'surli', 'surnam', 'surpri s', 'surrend', 'surround', 'survey', 'surya', 'sutra', 'sux', 'suzi', 'svc', 'sw7', 'sw73ss', 'swalpa', 'swan', 'swann', 'swap', 'swashbuckl', 'swat', 's

watch', 'sway', 'swayz', 'swear', 'sweater', 'sweatter', 'sweet', 'sweetest', 'sweetheart', 'sweeti', 'swell', 'shrt', 'swim', 'swimsuit', 'swing', 'swis s', 'switch', 'swollen', 'swoop', 'swt', 'swtheart', 'syd', 'syllabu', 'symbol', 'sympathet', 'symptom', 'sync', 'syria', 'syrup', 'system', 't91', 'ta', 'tabl', 'tablet', 'tackl', 'taco', 'tact', 'tactless', 'tadaaaaa', 'tag', 't ahan', 'tai', 'tait', 'taj', 'taka', 'take', 'takecar', 'taken', 'takenonli', 'takin', 'talent', 'talk', 'talkbut', 'talkin', 'tall', 'tallahasse', 'tallen t', 'tamilnaduthen', 'tampa', 'tank', 'tantrum', 'tap', 'tape', 'tariff', 'tar ot', 'tarpon', 'tast', 'tat', 'tata', 'tattoo', 'tau', 'taught', 'taunton', 'tax', 'taxi', 'taxless', 'taxt', 'taylor', 'tayseertissco', 'tb', 'tbsperso lvo', 'tc', 'tclic', 'tcrw1', 'tcsbcm4235wc1n3xx', 'tcsc', 'tcsstop', 'tddnew sletteremc1couk', 'te', 'tea', 'teach', 'teacher', 'teacoffe', 'team', 'tea r', 'teas', 'tech', 'technic', 'technolog', 'tee', 'teenag', 'teeth', 'teeth i', 'teethif', 'teju', 'tel', 'telephon', 'teletext', 'tell', 'telli', 'tellmiss', 'telphon', 'telugu', 'teluguth', 'temal', 'temp', 'temper', 'templ', 'ten', 'tenant', 'tendenc', 'tenerif', 'tens', 'tension', 'teresa', 'term', 'terminateddw', 'termsappli', 'terri', 'terribl', 'terrif', 'terrorist', 'tes co', 'tessypl', 'test', 'tex', 'texa', 'texd', 'text', 'text82228', 'textan d', 'textbook', 'textbuddi', 'textcomp', 'textin', 'textoper', 'textpod', 'textsweekend', 'tgxxrz', 'th', 'thandiyachu', 'thangam', 'thangamit', 'thank', 'thanks2', 'thanksgiv', 'thanku', 'thankyou', 'thanx', 'thanx4', 'thanxxx', 'thasa', 'that', 'that2worzel', 'thatd', 'thatdont', 'thati', 'thatll', 'tha tmum', 'thatnow', 'thatâ', 'the4th', 'theacus', 'theater', 'theatr', 'thecd', 'thedailydraw', 'thekingshead', 'theme', 'themob', 'themobhit', 'themobyo', 'themp', 'thenwil', 'theoret', 'theori', 'theplac', 'thepub', 'there', 'theredo', 'theregoodnight', 'therel', 'therer', 'therexx', 'theseday', 'theseyour', 'thesi', 'thesmszonecom', 'thewend', 'theyll', 'theyr', 'thgt', 'thi', 'thia', 'thin', 'thing', 'thinghow', 'think', 'thinkin', 'thinkthi', 'thinl', 'thirunelvali', 'thisdon', 'thk', 'thkin', 'thm', 'thnk', 'thnq', 'thnx', 'tho', 'thoso', 'thot', 'thou', 'though', 'thought', 'thoughtsi', 'thousand', 'thout', 'thread', 'threat', 'three', 'threw', 'thriller', 'throat', 'thrw', 'throwin', 'thrown', 'thru', 'thrurespect', 'tht', 'thu', 'thuglyf', 'thu r', 'thursday', 'thx', 'ti', 'tick', 'ticket', 'tiempo', 'tiger', 'tight', 'tightli', 'tigress', 'tih', 'tiim', 'til', 'till', 'tim', 'time', 'timedhoni', 'timegud', 'timehop', 'timeslil', 'timey', 'timeyour', 'timi', 'timin', 'tin i', 'tip', 'tire', 'tirunelvai', 'tirunelvali', 'tirupur', 'tisscotays', 'tit l', 'titleso', 'tiwari', 'tix', 'tiz', 'tke', 'tkt', 'tlk', 'tm', 'tming', 'tmobil', 'tmorrowpl', 'tmr', 'tmrw', 'tmw', 'tnc', 'toa', 'toaday', 'tobacco', 'tobe', 'tocallshal', 'toclaim', 'today', 'todaybut', 'todaydo', 'todayfrom', 'todaygood', 'todayh', 'todaysundaysunday', 'todo', 'tog', 'togeth', 'tohar', 'toilet', 'tok', 'toke', 'token', 'tol', 'told', 'toldsh', 'toledo', 'toler', 'toleratbc', 'toll', 'tom', 'tomarrow', 'tome', 'tomeandsaidhi', 'tomo', 'tomoc', 'tomorro', 'tomorrow', 'tomorrowcal', 'tomorrowtoday', 'tomorw', 'ton', 'tone', 'tones2u', 'tones2youcouk', 'tonesrepli', 'tonex', 'tonght', 'tongu', 'tonight', 'tonit', 'tonitebusi', 'toniteth', 'tonsolitusaswel', 'took', 'too kplac', 'tool', 'toole', 'tooo', 'tooprav', 'toot', 'toothpast', 'tootsi', 'top', 'topic', 'topicsorri', 'toplal', 'toppoli', 'tor', 'torch', 'torren t', 'tortilla', 'tortur', 'tosend', 'toshiba', 'toss', 'tot', 'total', 'tote', 'touch', 'tough', 'toughest', 'tour', 'toward', 'town', 'towncud', 'townd ontmatt', 'toxic', 'toyota', 'tp', 'track', 'trackmarqu', 'trade', 'tradit', 'traffic', 'train', 'trainner', 'tram', 'tranquil', 'transact', 'transcrib', 'transfer', 'transferacc', 'transfr', 'transport', 'trash', 'trauma', 'trav', 'travel', 'treacl', 'treadmil', 'treasur', 'treat', 'treatin', 'trebl', 'tre e', 'trek', 'trend', 'tri', 'trial', 'trip', 'tripl', 'trishul', 'triumph', 'tron', 'troubl', 'troubleshoot', 'trouser', 'trubl', 'truck', 'true', 'true kdo', 'truffl', 'truli', 'truro', 'trust', 'truth', 'tryin', 'trywal', 'ts', 'tsandc', 'tsc', 'tscs08714740323', 'tscs087147403231winawkage16', 'tshirt',

'tsunami', 'tt', 'ttyp', 'tue', 'tuesday', 'tui', 'tuition', 'tul', 'tulip', 'tund', 'tune', 'tunji', 'turkey', 'turn', 'tuth', 'tv', 'tvhe', 'tvlol', 'twat', 'twelv', 'twenti', 'twice', 'twigg', 'twilight', 'twin', 'twink', 'twitter', 'two', 'tx', 'txt', 'txt250com', 'txtauction', 'txtauctiontxt', 'txtin', 'txting', 'txtjourney', 'txtno', 'txtx', 'tyler', 'type', 'typelyk', 'typic', 'u', 'u2moro', 'u4', 'uawakefeellikw', 'ubandu', 'ubi', 'ucal', 'ud', 'u find', 'ugadi', 'ugh', 'ugo', 'uh', 'uhhhhrmm', 'uif', 'uin', 'ujhhhahh', 'uk', 'ukmobil', 'ukp2000', 'ull', 'ultim', 'ultimat', 'um', 'umma', 'ummma wil', 'ummmmmaah', 'un', 'unabl', 'unbeliev', 'uncl', 'unclaim', 'uncomfort', 'uncondit', 'unconsci', 'unconvinc', 'uncount', 'uncut', 'underdtand', 'under stand', 'understood', 'underwear', 'undrstnd', 'undrstndng', 'unemploy', 'une v', 'unfold', 'unfortun', 'unfortuntli', 'unhappi', 'uni', 'unicef', 'unifor m', 'unintent', 'uniqu', 'uniquei', 'unit', 'univ', 'univers', 'unknown', 'unless', 'unlik', 'unlimit', 'unmit', 'unnecessarili', 'unni', 'unrecogn', 'unr edeem', 'unsecur', 'unsold', 'unsoldmik', 'unsoldnow', 'unspoken', 'unsub', 'unsubscrib', 'unusu', 'uothrwis', 'up', 'up4', 'upcharg', 'upd8', 'updat', 'updatenow', 'upgrad', 'upgrdcntr', 'uphad', 'upload', 'upnot', 'upon', 'up set', 'upseti', 'upsetit', 'upstair', 'upto', 'uptown', 'upyeh', 'un', 'ure', 'urfeel', 'urgent', 'urgentbut', 'urgentlyit', 'urgh', 'urgnt', 'urgoin', 'ur gran', 'urin', 'url', 'urmomi', 'urn', 'urself', 'us', 'usb', 'usc', 'usced u', 'use', 'useless', 'user', 'usf', 'usget', 'usher', 'uslet', 'usml', 'usn o', 'uso', 'usp', 'usual', 'usualiam', 'uteru', 'utter', 'uu', 'uup', 'uv', 'uve', 'uwana', 'uwant', 'uworld', 'uxxxx', 'uâ', 'v', 'vaazhthukk', 'vagu', 'vai', 'vale', 'valentin', 'valid', 'valid12hr', 'valu', 'valuabl', 'valuemor n', 'varaya', 'vargu', 'vari', 'variou', 'varma', 'vasai', 'vat', 'vatian', 'vava', 'vco', 'vday', 'vega', 'veget', 'veggi', 'vehicl', 'velacheri', 'vel li', 'velusami', 'venaam', 'venugop', 'verifi', 'version', 'versu', 'vettam', 'vewi', 'via', 'vibrant', 'vibrat', 'vic', 'victor', 'victoria', 'vid', 'vide o', 'videochat', 'videop', 'videophon', 'videosound', 'videosounds2', 'vidno t', 'view', 'vijay', 'vijaykanth', 'vikki', 'vikkym', 'vilikkamt', 'vill', 'villa', 'villag', 'vinobanagar', 'violat', 'violenc', 'violet', 'vip', 'vir gin', 'virgin', 'virtual', 'visa', 'visionsmscom', 'visit', 'visitne', 'visit or', 'vital', 'vitamin', 'viva', 'vivek', 'vivekanand', 'viveki', 'vl', 'vld o', 'voda', 'vodafon', 'vodka', 'voic', 'voicemail', 'voila', 'volcano', 'vomit', 'vomitin', 'vote', 'voucher', 'voucherstext', 'vpist', 'vpod', 'vri', 'vs', 'vth', 'vtire', 'vu', 'w', 'w111wx', 'w14rg', 'w1a', 'w1j', 'w1t1ji', 'w4', 'w45wq', 'w8in', 'wa', 'wa14', 'waaaat', 'wad', 'wadebridgei', 'wah', 'wahaha', 'wahay', 'wahe', 'waheeda', 'wahleykkumshar', 'waht', 'wait', 'waiti', 'waitin', 'waitshould', 'waitu', 'wake', 'wale', 'walik', 'walk', 'walkabou t', 'walkin', 'wall', 'wallet', 'wallpap', 'wallpaperl', 'walmart', 'walsa l', 'wamma', 'wan', 'wan2', 'wana', 'wanna', 'wannatel', 'want', 'want2com', 'wap', 'waqt', 'warm', 'warn', 'warner', 'warranti', 'warwick', 'washob', 'wasnt', 'wasnâ', 'wast', 'wat', 'watch', 'watchin', 'watchng', 'wate', 'wate r', 'watev', 'watevr', 'watll', 'watrdayno', 'watt', 'wave', 'way', 'way2sm sc', 'waythi', 'wc', 'wc1n', 'wc1n3xx', 'weak', 'weapon', 'wear', 'weasel', 'weather', 'web', 'web2mobil', 'webadr', 'webeburnin', 'webpag', 'websit', 'websitenow', 'wed', 'weddin', 'weddingfriend', 'wedlunch', 'wednesday', 'we e', 'weed', 'weeddefici', 'week', 'weekday', 'weekend', 'weekli', 'weekstop', 'weigh', 'weight', 'weighthaha', 'weightloss', 'weird', 'weirdest', 'weirdi', 'weirdo', 'weiyi', 'welcom', 'well', 'wellda', 'welli', 'welltak', 'wellyou', 'welp', 'wen', 'wendi', 'wenev', 'went', 'wenwecan', 'wer', 'werear', 'werebo r', 'werent', 'wereth', 'wesley', 'west', 'western', 'westlif', 'westonzoylan d', 'westshor', 'wet', 'wetherspoon', 'weve', 'wewa', 'weâ', 'whassup', 'wha t', 'whatev', 'whatsup', 'whatâ', 'wheat', 'wheel', 'wheellock', 'when', 'whe nev', 'whenevr', 'whenr', 'whenwher', 'where', 'wherear', 'wherebtw', 'where v', 'wherevr', 'wherr', 'whether', 'whileamp', 'whilltak', 'whisper', 'whit e', 'whn', 'who', 'whole', 'whore', 'whose', 'whr', 'wi', 'wick', 'wicket',

'wicklow', 'wid', 'widelivecomindex', 'wif', 'wife', 'wifedont', 'wifehow', 'wifi', 'wihtuot', 'wikipedia', 'wil', 'wild', 'wildest', 'wildlif', 'wil1', 'willpow', 'win', 'win150ppmx3age16', 'wind', 'windi', 'window', 'wine', 'wing', 'winner', 'winnersclub', 'winterston', 'wipe', 'wipro', 'wiproy', 'wire3net', 'wisdom', 'wise', 'wish', 'wishin', 'wishlist', 'wiskey', 'wit', 'withdraw', 'wither', 'within', 'without', 'witin', 'witot', 'witout', 'wiv', 'wizzl', 'wk', 'wkend', 'wkent150p16', 'wkg', 'wkli', 'wknd', 'wktxt', 'wlcome', 'wld', 'wmlid1b6a5ecef91ff937819firsttrue180430jul05', 'wmlid820554ad0a1705572711firsttrueâ', 'wn', 'wnevr', 'wnt', 'wo', 'woah', 'wocay', 'woke', 'woken', 'woman', 'womdarful', 'women', 'wondar', 'wonderful', 'wonder', 'wont', 'woo', 'wood', 'woodland', 'woohoo', 'woot', 'woould', 'woozl', 'worc', 'word', 'wordcollect', 'wordnot', 'wordsevri', 'wordstart', 'work', 'working', 'workand', 'workin', 'worklov', 'workout', 'world', 'worldgnun', 'worldmady', 'worldveri', 'worm', 'worri', 'worriedx', 'worryc', 'worryus', 'wors', 'worst', 'worth', 'worthless', 'wot', 'wotu', 'wotz', 'woul', 'would', 'woulda', 'wouldnt', 'wound', 'wow', 'wquestion', 'wrc', 'wreck', 'wrench', 'wright', 'write', 'writh', 'wrk', 'wrki', 'wrkin', 'wrking', 'wrld', 'wrnog', 'wrong', 'wrongli', 'wrongtak', 'wrote', 'ws', 'wt', 'wtc', 'wtf', 'wth', 'wthout', 'wud', 'wudnt', 'wuld', 'wuldnt', 'wun', 'www07781482378com', 'www4tcbiz', 'www80488biz', 'wwwapplausestorecom', 'wwwareyouuniquecouk', 'wwwasjesuscum', 'wwwb4utelecom', 'wwwbridalpetticoatdreamscouk', 'wwwcashbincouk', 'wwwclubmobycom', 'wwwclubzedcouk', 'wwwcnupdatescomnewslett', 'wwwcomuknet', 'wwwdbuknet', 'wwwflirtpartyu', 'wwwfullonsmscom', 'wwwgambtv', 'wwwgetzedcouk', 'wwwidewcom', 'wwwldewcom', 'wwwldewcom1win150ppmx3age16', 'wwwldewcom1win150ppmx3age16subscript', 'wwwldewcomsubs161win150ppmx3', 'wwwmovietriviavt', 'wwwmusictrivianet', 'wwworangepcoukow', 'wwwphb1com', 'wwwregalportfoliocouk', 'wwwringtonekingcouk', 'wwwringtonescouk', 'wwwrtfsphostingcom', 'wwwsantacallingcom', 'wwwshortbreaksorguk', 'wwwsmsacubootydeli', 'wwwsmsacugoldvik', 'wwwsmsacuhmmross', 'wwwsmsacunat27081980', 'wwwsmsacunatalie2k9', 'wwwsmssonet', 'wwwtcbiz', 'wwwtelediscountcouk', 'wwwtextcompcom', 'wwwtextpodnet', 'wwwtklscom', 'wwwtxt2shopcom', 'wwwtxt43com', 'wwwtxt82228com', 'wwwtxttowincouk', 'wwwwin82050couk', 'wyli', 'x', 'x2', 'x29', 'x49', 'x49your', 'xafter', 'xam', 'xavier', 'xchat', 'xclusiveclubsaisai', 'xin', 'xma', 'xnet', 'xo xo', 'xt', 'xuhui', 'xx', 'xxsp', 'xxuk', 'xxx', 'xxxmobilemovieclub', 'xxxmobilemovieclubcommqjkigjhjgcbl', 'xxxx', 'xxxxx', 'xxxxxx', 'xxxxxxxx', 'xxxxxx', 'xxxx', 'xxxxxxxxxxxxxx', 'xy', 'y87', 'ya', 'yago', 'yah', 'yahoo', 'yalrigu', 'yalru', 'yam', 'yan', 'yar', 'yard', 'yavnt', 'yaxx', 'yaxxx', 'yay', 'yck', 'yday', 'ye', 'yeah', 'yeahand', 'year', 'yeesh', 'yeh', 'yell', 'yellow', 'yellowi', 'yen', 'yeovil', 'yep', 'yer', 'yes165', 'yes434', 'yes440', 'yes762', 'yes910', 'yesbut', 'yesfrom', 'yesgauti', 'yesh', 'yesher', 'yesim', 'yesmum', 'yessura', 'yest', 'yesterday', 'yet', 'yetti', 'yetund', 'yi', 'yifeng', 'yiju', 'yijuehotmailcom', 'ym', 'ymca', 'yo', 'yoga', 'yogasana', 'yoher', 'yor', 'yorg', 'youani', 'youcarlo', 'youclean', 'youd', 'youdearwith', 'youdo', 'youhow', 'youi', 'youkwher', 'yould', 'youll', 'youmi', 'youmone', 'young', 'younger', 'youphon', 'your', 'yourinclus', 'yourjob', 'youso', 'youthat', 'youto', 'youuuu', 'youv', 'youwanna', 'youwhen', 'youâ', 'yovi1', 'yowif', 'yooyooo', 'yr', 'ystrdayic', 'yummi', 'yummمم', 'yun', 'yunni', 'yuo', 'yuou', 'yup', 'yupz', 'ywhere', 'z', 'zac', 'zaher', 'zealand', 'zebra', 'zed', 'zero', 'zhong', 'zindgi', 'zoe', 'zogtoriu', 'zoom', 'zouk', 'zyada', '%ä', 'â', 'ä', 'ä%', 'ä%ll', 'äœ', 'äœll', 'œ', 'œharri']

```
In [41]: data_sample = fullcorpus[0:20]
tfidf_vect = TfidfVectorizer(analyzer=clean_text)
x_tfidf = tfidf_vect.fit_transform(data_sample['Body'])
print(x_tfidf.shape)
print(tfidf_vect.get_feature_names())

(20, 204)
['08002986030', '08452810075over18', '09061701461', '1', '100', '100000', '1
1', '12', '150pday', '16', '2', '20000', '2005', '21st', '3', '4', '4403ldnw1
a7rw18', '4txtäº120', '6day', '81010', '87077', '87121', '87575', '9', '900',
'aft', 'aid', 'already', 'anymor', 'appli', 'ard', 'around', 'b', 'bless', 'b
reather', 'brother', 'call', 'caller', 'callertun', 'camera', 'cash', 'chan
c', 'claim', 'click', 'co', 'code', 'colour', 'comin', 'comp', 'copi', 'cos
t', 'credit', 'cri', 'csh11', 'cup', 'custom', 'da', 'date', 'dont', 'eg', 'e
h', 'england', 'enough', 'entitl', 'entri', 'even', 'fa', 'feel', 'final', 'f
ine', 'finish', 'first', 'free', 'friend', 'fulfil', 'go', 'goalsteam', 'go
e', 'gonna', 'gota', 'grant', 'ha', 'help', 'hl', 'home', 'hour', 'httpwap',
'im', 'info', 'ive', 'iâ', 'jackpot', 'joke', 'k', 'kim', 'kl341', 'lar', 'la
test', 'lccltd', 'like', 'link', 'live', 'lor', 'lunch', 'macedonia', 'make',
'may', 'mell', 'membership', 'messag', 'minnaminungint', 'miss', 'mobil', 'mo
nth', 'nah', 'name', 'nation', 'naughti', 'network', 'news', 'next', 'nurung
u', 'oh', 'oru', 'patent', 'pay', 'per', 'pobox', 'poboxox36504w45wq', 'poun
d', 'press', 'prize', 'promis', 'questionstd', 'r', 'ratetc', 'receiv', 'rece
ivea', 'rememb', 'repli', 'request', 'reward', 'right', 'scotland', 'search',
'select', 'send', 'serious', 'set', 'six', 'smth', 'soon', 'speak', 'spell',
'stock', 'str', 'stuff', 'sunday', 'take', 'talk', 'tc', 'team', 'text', 'tha
nk', 'thatâ', 'think', 'though', 'time', 'tkt', 'today', 'tonight', 'treat',
'tri', 'trywal', 'tsandc', 'txt', 'u', 'updat', 'ur', 'urgent', 'use', 'usf',
'v', 'valid', 'valu', 'vettam', 'want', 'wap', 'watch', 'way', 'week', 'wet',
'win', 'winner', 'wkli', 'wonder', 'wont', 'word', 'wwwdbuknet', 'xxxmobilemo
vieclub', 'xxxmobilemovieclubcommqjkighjjgcbl', 'ye', 'â', 'ä']]
```

```
In [42]: x_tfidf_df = pd.DataFrame(x_tfidf.toarray())
x_tfidf_df.columns = tfidf_vect.get_feature_names()
x_tfidf_df
```

Out[42]:

	08002986030	08452810075over18	09061701461	1	100	100000	11
0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1	0.000000	0.198986	0.000000	0.000000	0.000000	0.000000	0.000000
2	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
3	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
4	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
5	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
6	0.000000	0.000000	0.226988	0.000000	0.000000	0.000000	0.2269
7	0.197682	0.000000	0.000000	0.000000	0.000000	0.197682	0.0000
8	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000
9	0.000000	0.000000	0.000000	0.000000	0.224905	0.000000	0.000000
10	0.000000	0.000000	0.000000	0.24867	0.000000	0.24867	0.000000
11	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
12	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
13	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
14	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
15	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
16	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
17	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
18	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
19	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

20 rows × 204 columns

```
In [43]: from sklearn.ensemble import RandomForestClassifier
from sklearn.model_selection import KFold, cross_val_score
```

```
In [44]: def count_punct(text):
    count = sum([1 for char in text if char in string.punctuation])
    return round(count/(len(text) - text.count(" ")), 3)*100
fullcorpus['body_len'] = fullcorpus['Body'].apply(lambda x: len(x) - x.count(" "))
fullcorpus['punct%'] = fullcorpus['Body'].apply(lambda x: count_punct(x))
tfidf_vect = TfidfVectorizer(analyzer=clean_text)
X_tfidf = tfidf_vect.fit_transform(fullcorpus['Body'])

X_features = pd.concat([fullcorpus['body_len'], fullcorpus['punct%'], pd.DataFrame(X_tfidf.toarray())], axis=1)
X_features.head()
```

Out[44]:

	body_len	punct%	0	1	2	3	4	5	6	7	...	8141	8142	8143	8144	8145	8
0	160	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0
1	128	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0
2	49	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0
3	62	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0
4	28	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0

5 rows × 8153 columns

```
In [45]: rf = RandomForestClassifier(n_jobs=-1)
k_fold = KFold(n_splits=5)
cross_val_score(rf, X_features, fullcorpus['label'], cv=k_fold, scoring='accuracy', n_jobs=-1)
```

Out[45]: array([0.96678636, 0.97396768, 0.97486535, 0.95870736, 0.96499102])

```
In [46]: from sklearn.metrics import precision_recall_fscore_support as score
from sklearn.model_selection import train_test_split
```

```
In [47]: x_train, x_test, y_train, y_test = train_test_split(X_features, fullcorpus['label'], test_size=0.2)
```

```
In [48]: rf1 = RandomForestClassifier(n_estimators=50, max_depth=20, n_jobs=-1)
```

```
In [49]: rf_model = rf.fit(x_train, y_train)
```

C:\ProgramData\Anaconda3\lib\site-packages\sklearn\ensemble\forest.py:246: FutureWarning: The default value of n_estimators will change from 10 in version 0.20 to 100 in 0.22.
 "10 in version 0.20 to 100 in 0.22.", FutureWarning)

```
In [50]: y_pred = rf_model.predict(x_test)
precision, recall, fscore, support = score(y_test, y_pred, pos_label='spam', average='binary')
```

```
In [51]: 'Precision: {} Recall: {} Accuracy: {}'.format(round(precision, 3),
                                                       round(recall, 3),
                                                       round((y_pred==y_test).sum() / len(y_pred), 3))
```

```
Out[51]: 'Precision: 0.992 Recall: 0.781 Accuracy: 0.969'
```

```
In [52]: def train_RF(n_est, depth):
    rf = RandomForestClassifier(n_estimators=n_est, max_depth=depth, n_jobs=-1)
    rf_model_gs = rf.fit(x_train, y_train)
    y_pred = rf_model_gs.predict(x_test)
    precision, recall, fscore, support = score(y_test, y_pred, pos_label='spam', average='binary')
    print('Est: {} / Depth: {} ---- Precision: {} / Recall: {} / Accuracy: {}'.format(
        n_est, depth, round(precision, 3), round(recall, 3),
        round((y_pred==y_test).sum() / len(y_pred), 3)))
```

```
In [53]: for n_est in [10, 50, 100]:
    for depth in [10, 20, 30, None]:
        train_RF(n_est, depth)
```

```
Est: 10 / Depth: 10 ---- Precision: 1.0 / Recall: 0.258 / Accuracy: 0.897
Est: 10 / Depth: 20 ---- Precision: 0.961 / Recall: 0.632 / Accuracy: 0.945
Est: 10 / Depth: 30 ---- Precision: 0.975 / Recall: 0.748 / Accuracy: 0.962
Est: 10 / Depth: None ---- Precision: 1.0 / Recall: 0.781 / Accuracy: 0.969
Est: 50 / Depth: 10 ---- Precision: 1.0 / Recall: 0.239 / Accuracy: 0.894
Est: 50 / Depth: 20 ---- Precision: 1.0 / Recall: 0.606 / Accuracy: 0.945
Est: 50 / Depth: 30 ---- Precision: 1.0 / Recall: 0.716 / Accuracy: 0.961
Est: 50 / Depth: None ---- Precision: 1.0 / Recall: 0.813 / Accuracy: 0.974
Est: 100 / Depth: 10 ---- Precision: 1.0 / Recall: 0.232 / Accuracy: 0.893
Est: 100 / Depth: 20 ---- Precision: 1.0 / Recall: 0.6 / Accuracy: 0.944
Est: 100 / Depth: 30 ---- Precision: 1.0 / Recall: 0.742 / Accuracy: 0.964
Est: 100 / Depth: None ---- Precision: 1.0 / Recall: 0.819 / Accuracy: 0.975
```

In [54]: # TF-IDF

```
tfidf_vect = TfidfVectorizer(analyzer=clean_text)
X_tfidf = tfidf_vect.fit_transform(fullcorpus['Body'])
X_tfidf_feat = pd.concat([fullcorpus['body_len'], fullcorpus['punct%'], pd.DataFrame(X_tfidf.toarray())], axis=1)

# CountVectorizer
count_vect = CountVectorizer(analyzer=clean_text)
X_count = count_vect.fit_transform(fullcorpus['Body'])
X_count_feat = pd.concat([fullcorpus['body_len'], fullcorpus['punct%'], pd.DataFrame(X_count.toarray())], axis=1)

X_count_feat.head()
from sklearn.model_selection import GridSearchCV
rf = RandomForestClassifier()
param = {'n_estimators': [10, 150, 300],
          'max_depth': [30, 60, 90, None]}

gs = GridSearchCV(rf, param, cv=5, n_jobs=-1)
gs_fit = gs.fit(X_tfidf_feat, fullcorpus['label'])
pd.DataFrame(gs_fit.cv_results_).sort_values('mean_test_score', ascending=False)[0:5]
```

```
C:\ProgramData\Anaconda3\lib\site-packages\sklearn\utils\deprecation.py:125:  
FutureWarning: You are accessing a training score ('split0_train_score'), which  
will not be available by default any more in 0.21. If you need training scores,  
please set return_train_score=True  
    warnings.warn(*warn_args, **warn_kwargs)  
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C:\ProgramData\Anaconda3\lib\site-packages\sklearn\utils\deprecation.py:125:  
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    warnings.warn(*warn_args, **warn_kwargs)  
C:\ProgramData\Anaconda3\lib\site-packages\sklearn\utils\deprecation.py:125:  
FutureWarning: You are accessing a training score ('split4_train_score'), which  
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please set return_train_score=True  
    warnings.warn(*warn_args, **warn_kwargs)  
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    warnings.warn(*warn_args, **warn_kwargs)  
C:\ProgramData\Anaconda3\lib\site-packages\sklearn\utils\deprecation.py:125:  
FutureWarning: You are accessing a training score ('std_train_score'), which  
will not be available by default any more in 0.21. If you need training scores,  
please set return_train_score=True  
    warnings.warn(*warn_args, **warn_kwargs)
```

Out[54]:

	mean_fit_time	std_fit_time	mean_score_time	std_score_time	param_max_depth	param_n_e:
7	32.795955	0.179489	0.384319	0.012738	90	
11	55.210761	1.785723	0.407511	0.020404	None	
10	34.917827	1.220497	0.388788	0.024577	None	
8	62.383184	0.611836	0.575860	0.028037	90	
5	49.586973	0.247381	0.489889	0.008611	60	

5 rows × 22 columns

```
In [55]: rf = RandomForestClassifier()
param = {'n_estimators': [10, 150, 300],
          'max_depth': [30, 60, 90, None]}

gs = GridSearchCV(rf, param, cv=5, n_jobs=-1)
gs_fit = gs.fit(X_count_feat, fullcorpus['label'])
pd.DataFrame(gs_fit.cv_results_).sort_values('mean_test_score', ascending=False)[0:5]
```

```
C:\ProgramData\Anaconda3\lib\site-packages\sklearn\utils\deprecation.py:125:  
FutureWarning: You are accessing a training score ('split0_train_score'), which will not be available by default any more in 0.21. If you need training scores, please set return_train_score=True  
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FutureWarning: You are accessing a training score ('split1_train_score'), which will not be available by default any more in 0.21. If you need training scores, please set return_train_score=True  
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FutureWarning: You are accessing a training score ('std_train_score'), which will not be available by default any more in 0.21. If you need training scores, please set return_train_score=True  
    warnings.warn(*warn_args, **warn_kwargs)
```

Out[55]:

	mean_fit_time	std_fit_time	mean_score_time	std_score_time	param_max_depth	param_n_estimators
7	29.796084	0.553805	0.360448	0.022326	90	
8	55.934248	0.389337	0.514243	0.026905	90	
10	30.387338	0.574654	0.348885	0.023324	None	
4	24.174776	0.279725	0.334685	0.016544	60	
6	4.479022	0.078546	0.194879	0.008956	90	

5 rows × 22 columns

In [56]:

```
from sklearn.ensemble import GradientBoostingClassifier
```

In [57]:

```
def train_GB(est, max_depth, lr):
    gb = GradientBoostingClassifier(n_estimators=est, max_depth=max_depth, learning_rate=lr)
    gb_model = gb.fit(x_train, y_train)
    y_pred = gb_model.predict(x_test)
    precision, recall, fscore, train_support = score(y_test, y_pred, pos_label='spam', average='binary')
    print('Est: {} / Depth: {} / LR: {} ---- Precision: {} / Recall: {} / Accuracy: {}'.format(
        est, max_depth, lr, round(precision, 3), round(recall, 3),
        round((y_pred==y_test).sum()/len(y_pred), 3)))
```

```
In [58]: for n_est in [100, 150]:
    for max_depth in [11, 15]:
        for lr in [0.1, 1]:
            train_GB(n_est, max_depth, lr)

Est: 100 / Depth: 11 / LR: 0.1 ---- Precision: 0.89 / Recall: 0.839 / Accuracy: 0.963
Est: 100 / Depth: 11 / LR: 1 ---- Precision: 0.873 / Recall: 0.845 / Accuracy: 0.961
Est: 100 / Depth: 15 / LR: 0.1 ---- Precision: 0.885 / Recall: 0.845 / Accuracy: 0.963
Est: 100 / Depth: 15 / LR: 1 ---- Precision: 0.849 / Recall: 0.832 / Accuracy: 0.956
Est: 150 / Depth: 11 / LR: 0.1 ---- Precision: 0.872 / Recall: 0.839 / Accuracy: 0.961
Est: 150 / Depth: 11 / LR: 1 ---- Precision: 0.868 / Recall: 0.845 / Accuracy: 0.961
Est: 150 / Depth: 15 / LR: 0.1 ---- Precision: 0.884 / Recall: 0.832 / Accuracy: 0.961
Est: 150 / Depth: 15 / LR: 1 ---- Precision: 0.828 / Recall: 0.839 / Accuracy: 0.953
```

```
In [60]: gb = GradientBoostingClassifier()
param = {
    'n_estimators': [100, 150],
    'max_depth': [11, 15],
    'learning_rate': [0.1]
}

clf = GridSearchCV(gb, param, cv=5, n_jobs=-1)
cv_fit = clf.fit(X_tfidf_feat, fullcorpus['label'])
pd.DataFrame(cv_fit.cv_results_).sort_values('mean_test_score', ascending=False)[0:5]

gb = GradientBoostingClassifier()
param = {
    'n_estimators': [100, 150],
    'max_depth': [11, 15],
    'learning_rate': [0.1]
}

clf = GridSearchCV(gb, param, cv=5, n_jobs=-1)
cv_fit = clf.fit(X_count_feat, fullcorpus['label'])
pd.DataFrame(cv_fit.cv_results_).sort_values('mean_test_score', ascending=False)[0:5]
```

```
C:\ProgramData\Anaconda3\lib\site-packages\sklearn\utils\deprecation.py:125:  
FutureWarning: You are accessing a training score ('split0_train_score'), which will not be available by default any more in 0.21. If you need training scores, please set return_train_score=True  
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    warnings.warn(*warn_args, **warn_kwargs)  
C:\ProgramData\Anaconda3\lib\site-packages\sklearn\utils\deprecation.py:125:  
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    warnings.warn(*warn_args, **warn_kwargs)  
C:\ProgramData\Anaconda3\lib\site-packages\sklearn\utils\deprecation.py:125:  
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    warnings.warn(*warn_args, **warn_kwargs)  
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```
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will not be available by default any more in 0.21. If you need training score
s, please set return_train_score=True
    warnings.warn(*warn_args, **warn_kwargs)
```

Out[60]:

	mean_fit_time	std_fit_time	mean_score_time	std_score_time	param_learning_rate	param_ma
3	423.755055	42.836684	0.191896	0.023877	0.1	
1	411.643044	1.741724	0.255117	0.009760	0.1	
0	292.527366	2.352664	0.241953	0.005733	0.1	
2	392.405087	3.490199	0.258907	0.016551	0.1	

4 rows × 23 columns

```
In [97]: tfidf_vect = TfidfVectorizer(analyzer=clean_text)
tfidf_vect_fit = tfidf_vect.fit(X_train['Body'])

tfidf_train = tfidf_vect_fit.transform(X_train['Body'])
tfidf_test = tfidf_vect_fit.transform(X_test['Body'])

X_train_vect = pd.concat([X_train[['body_len', 'punct%']].reset_index(drop=True),
                           pd.DataFrame(tfidf_train.toarray()), axis=1])
X_test_vect = pd.concat([X_test[['body_len', 'punct%']].reset_index(drop=True),
                           pd.DataFrame(tfidf_test.toarray()), axis=1])

X_train_vect.head()
```

Out[97]:

	body_len	punct%	0	1	2	3	4	5	6	7	...	7176	7177	7178	7179	7180
0	97	7.2	0.000000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.0	0.0
1	119	5.9	0.000000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.0	0.0
2	22	13.6	0.000000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.0	0.0
3	51	3.9	0.000000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.0	0.0
4	63	14.3	0.133805	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.0	0.0

5 rows × 7188 columns

```
In [91]: from sklearn.model_selection import train_test_split
```

```
X_train, X_test, y_train, y_test = train_test_split(fullcorpus[['Body', 'body_len', 'punct%']], fullcorpus['label'], test_size=0.2)
```

```
In [98]: rf = RandomForestClassifier(n_estimators=150, max_depth=None, n_jobs=-1)
```

```
rf_model = rf.fit(X_train_vect, y_train)
y_pred = rf_model.predict(X_test_vect)

precision, recall, fscore, train_support = score(y_test, y_pred, pos_label='spam', average='binary')
print('Precision: {} / Recall: {} / Accuracy: {}'.format(
    round(precision, 3), round(recall, 3), round((y_pred==y_test).sum()/len(y_pred), 3)))
```

Precision: 1.0 / Recall: 0.853 / Accuracy: 0.981

In [96]: X_test.head(5)

Out[96]:

		Body	body_len	punct%
3320	She said," do u mind if I go into the bedroom...		112	14.3
2110	Yeah, don't go to bed, I'll be back before mid...		42	9.5
1269	Ok...		5	60.0
80	Yup next stop.		12	8.3
4652	Our Prasanth ettans mother passed away last ni...		67	3.0

In [99]: gb = GradientBoostingClassifier(n_estimators=150, max_depth=11)

```
gb_model = gb.fit(X_train_vect, y_train)
y_pred = gb_model.predict(X_test_vect)

precision, recall, fscore, train_support = score(y_test, y_pred, pos_label='spam',
                                                average='binary')
print('Precision: {} / Recall: {} / Accuracy: {}'.format(
    round(precision, 3), round(recall, 3), round((y_pred==y_test).sum()/len(y_pred), 3)))
```

Precision: 0.938 / Recall: 0.853 / Accuracy: 0.974

In [101]: rf = RandomForestClassifier(n_estimators=150, max_depth=None, n_jobs=-1)

```
from sklearn.ensemble import RandomForestClassifier, GradientBoostingClassifier
from sklearn.metrics import precision_recall_fscore_support as score
import time
start = time.time()
rf_model = rf.fit(X_train_vect, y_train)
end = time.time()
fit_time = (end - start)

start = time.time()
y_pred = rf_model.predict(X_test_vect)
end = time.time()
pred_time = (end - start)

precision, recall, fscore, train_support = score(y_test, y_pred, pos_label='spam',
                                                average='binary')
print('Fit time: {} / Predict time: {} ---- Precision: {} / Recall: {} / Accuracy: {}'.format(
    round(fit_time, 3), round(pred_time, 3), round(precision, 3), round(recall, 3), round((y_pred==y_test).sum()/len(y_pred), 3)))
```

Fit time: 3.785 / Predict time: 0.186 ---- Precision: 1.0 / Recall: 0.853 / Accuracy: 0.981

```
In [102]: gb = GradientBoostingClassifier(n_estimators=150, max_depth=11)

start = time.time()
gb_model = gb.fit(X_train_vect, y_train)
end = time.time()
fit_time = (end - start)

start = time.time()
y_pred = gb_model.predict(X_test_vect)
end = time.time()
pred_time = (end - start)

precision, recall, fscore, train_support = score(y_test, y_pred, pos_label='spam', average='binary')
print('Fit time: {} / Predict time: {} ---- Precision: {} / Recall: {} / Accuracy: {}'.format(
    round(fit_time, 3), round(pred_time, 3), round(precision, 3), round(recall, 3), round((y_pred==y_test).sum()/len(y_pred), 3)))
```

```
Fit time: 348.684 / Predict time: 0.174 ---- Precision: 0.939 / Recall: 0.86
/ Accuracy: 0.975
```

```
In [ ]:
```