

Naive_Bayes_SMV_comparation_Classifiers

January 7, 2019

```
In [51]: from nltk.tokenize import word_tokenize
         from nltk.corpus import stopwords
         from nltk.stem import PorterStemmer
         import matplotlib.pyplot as plt
         from math import log, sqrt
         import pandas as pd
         import numpy as np
         import string
         from sklearn import feature_extraction, model_selection, naive_bayes, metrics, svm
         import seaborn as sns
         %matplotlib inline
```

```
Tweets = pd.read_csv('dataset13.csv')
```

```
Tweets.head()
```

```
Out[51]:
```

		Tweets	Label	Name
0	egypt s official news agency mena website hack...	1	AkincilarCW	
1	middle east news agency the state news agency ...	1	AkincilarCW	
2	t rk hackerlar m s r resmi haber ajans n n sit...	0	AkincilarCW	
3	t rk hackerlar m s r resmi haber ajans n n sit...	0	AkincilarCW	
4	t rk hackerlar m s r resmi haber ajans n n sit...	0	AkincilarCW	

```
In [52]: Tweets.describe()
```

```
Out[52]:
```

	Tweets	Label	\
count	10208	10204	
unique	4558	3	
top	down by mr p r dox anonghost anonymous tangodo...	0	
freq	266	7679	

	Name
count	10208
unique	30
top	GhostSecGroup
freq	400

```
In [53]: Tweets.groupby('Label').describe()
```

```
Out [53]:
```

	Name		Tweets			
	count	unique	top freq	count	unique	
Label						
0	7679	30	birlesik	398	7679	3430
1	2524	27	AnonGhostCJ	276	2524	1147
x	1	1	CgAn_Doemela	1	1	1

			top freq
Label			
0	down by mr p r dox anonghost	anonymous tangodo...	264
1		ar crushdaesh opisis	40
x	safeguard your data and privacy online with th...		1

```
In [54]: Tweets['length']=Tweets['Tweets'].apply(len)
Tweets.head()
```

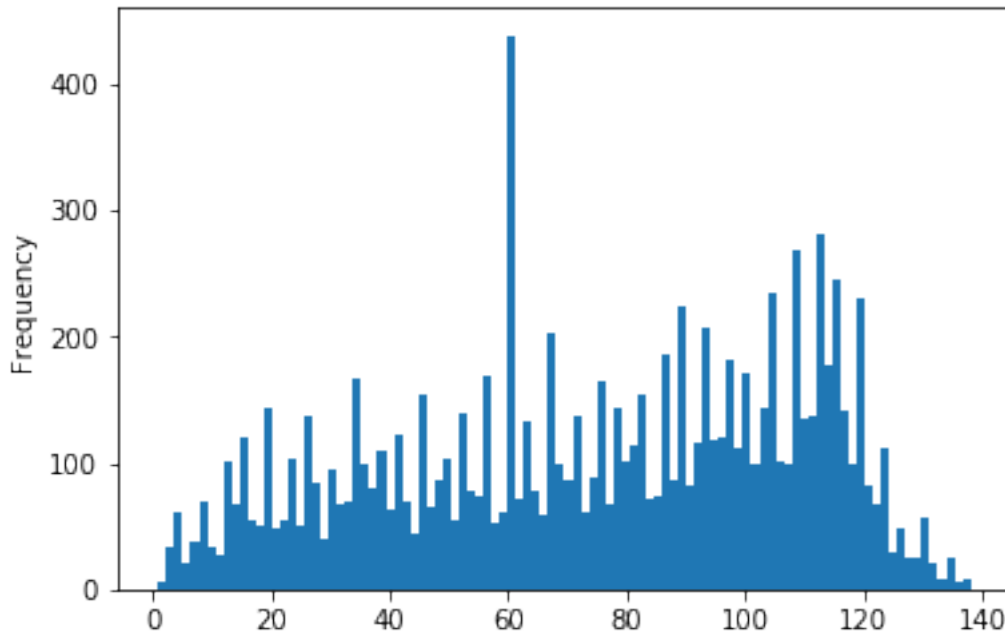
```
Out [54]:
```

	Tweets	Label	Name
0	egypt s official news agency mena website hack...	1	AkincilarCW
1	middle east news agency the state news agency ...	1	AkincilarCW
2	t rk hackerlar m s r resmi haber ajans n n sit...	0	AkincilarCW
3	t rk hackerlar m s r resmi haber ajans n n sit...	0	AkincilarCW
4	t rk hackerlar m s r resmi haber ajans n n sit...	0	AkincilarCW

	length
0	120
1	123
2	79
3	70
4	60

```
In [55]: Tweets['length'].plot(bins=100,kind='hist')
```

```
Out [55]: <matplotlib.axes._subplots.AxesSubplot at 0x7f4b40b95e48>
```



```
In [56]: Tweets.length.describe()
```

```
Out[56]: count      10208.000000
         mean        74.446904
         std         33.980693
         min         1.000000
         25%         48.000000
         50%         78.000000
         75%        104.000000
         max        138.000000
         Name: length, dtype: float64
```

```
In [57]: Tweets[Tweets['length']==138]['Tweets'].iloc[0]
```

```
Out[57]: 'im not a trump supporter but i do find it distressing that hillary supporters feel v
```

```
In [58]: def text_process(mess):
         nopunc =[char for char in mess if char not in string.punctuation]
         nopunc=''.join(nopunc)
         return [word for word in nopunc.split() if word.lower() not in stopwords.words('en

Tweets.head()
```

```
Out[58]:
```

	Tweets	Label	Name \
0	egypt s official news agency mena website hack...	1	AkincilarCW
1	middle east news agency the state news agency ...	1	AkincilarCW

2	t rk hackerlar m s r resmi haber ajans n n sit...	0	AkincilarCW
3	t rk hackerlar m s r resmi haber ajans n n sit...	0	AkincilarCW
4	t rk hackerlar m s r resmi haber ajans n n sit...	0	AkincilarCW

	length
0	120
1	123
2	79
3	70
4	60

In [59]: Tweets['Tweets'].head(5).apply(text_process)

Out [59]:

0	[egypt, official, news, agency, mena, website, ...]
1	[middle, east, news, agency, state, news, agen...]
2	[rk, hackerlar, r, resmi, haber, ajans, n, n, ...]
3	[rk, hackerlar, r, resmi, haber, ajans, n, n, ...]
4	[rk, hackerlar, r, resmi, haber, ajans, n, n, ...]

Name: Tweets, dtype: object

In [60]: #Tweets['Tweets'].plot(bins=100, kind='bar')

In [61]: Tweets.length.describe()

Out [61]:

count	10208.000000
mean	74.446904
std	33.980693
min	1.000000
25%	48.000000
50%	78.000000
75%	104.000000
max	138.000000

Name: length, dtype: float64

In [62]: Tweets.head()

Out [62]:

	Tweets	Label	Name	\
0	egypt s official news agency mena website hack...	1	AkincilarCW	
1	middle east news agency the state news agency ...	1	AkincilarCW	
2	t rk hackerlar m s r resmi haber ajans n n sit...	0	AkincilarCW	
3	t rk hackerlar m s r resmi haber ajans n n sit...	0	AkincilarCW	
4	t rk hackerlar m s r resmi haber ajans n n sit...	0	AkincilarCW	

	length
0	120
1	123
2	79
3	70
4	60

```
In [63]: from sklearn.feature_extraction.text import CountVectorizer

bow_transformer = CountVectorizer(analyzer=text_process).fit(Tweets['Tweets'])
print(len(bow_transformer.vocabulary_))
```

12786

```
In [64]: Tweets4=Tweets['Tweets'][3]
print(Tweets4)
```

t rk hackerlar m s r resmi haber ajans n n sitesini hackledi haberturk

```
In [65]: bow4=bow_transformer.transform([Tweets4])
print(bow4)
print(bow4.shape)
```

```
(0, 293)      1
(0, 4798)     1
(0, 4801)     1
(0, 4820)     1
(0, 4830)     1
(0, 7494)     2
(0, 9188)     1
(0, 9499)     1
(0, 9649)     1
(0, 10407)    1
(1, 12786)
```

```
In [66]: print(bow_transformer.get_feature_names()[4073])
print(bow_transformer.get_feature_names()[9570])
```

fight
rex

```
In [67]: Tweets_bow = bow_transformer.transform(Tweets['Tweets'])

print('Shape of Sparse Matrix: ',Tweets_bow.shape)
print('Amount of non-zero occurences:',Tweets_bow.nnz)
```

Shape of Sparse Matrix: (10208, 12786)
Amount of non-zero occurences: 92322

```
In [68]: sparsity =(100.0 * Tweets_bow.nnz/(Tweets_bow.shape[0]*Tweets_bow.shape[1]))
print('sparsity:{}'.format(round(sparsity)))
```

sparsity:0

```
In [69]: from sklearn.feature_extraction.text import TfidfTransformer
         tfidf_transformer=TfidfTransformer().fit(Tweets_bow)
         tfidf4 = tfidf_transformer.transform(bow4)
         print(tfidf4)
```

```
(0, 10407)      0.33194878482925727
(0, 9649)       0.2542100646254636
(0, 9499)       0.3253362984280295
(0, 9188)       0.1757977571317432
(0, 7494)       0.35105390688748034
(0, 4830)       0.3119541299893323
(0, 4820)       0.3168676119627846
(0, 4801)       0.4126672996744178
(0, 4798)       0.3054170206496304
(0, 293)        0.32234379754178394
```

```
In [70]: print(tfidf_transformer.idf_[bow_transformer.vocabulary_['hacked']])
         print(tfidf_transformer.idf_[bow_transformer.vocabulary_['cked']])
```

```
4.257215351299754
8.285114814113701
```

```
In [71]: Tweets_tfidf=tfidf_transformer.transform(Tweets_bow)
         print(Tweets_tfidf.shape)
         #df[cat] = le.fit_transform(df[cat].astype(str))
```

```
(10208, 12786)
```

```
In [72]: from sklearn.naive_bayes import MultinomialNB
         from sklearn.model_selection import train_test_split
```

```
In [73]: X_train, X_test, y_train, y_test = train_test_split(Tweets_tfidf, Tweets['Label'].values,
         print('Training Data', np.shape(X_train), 'Test Data', np.shape(X_test)))
```

```
Training Data [(6839, 12786), 'Test Data', (3369, 12786)]
```

```
In [74]: list_alpha = np.arange(1/100000, 20, 0.11)
         score_train = np.zeros(len(list_alpha))
         score_test = np.zeros(len(list_alpha))
         recall_test = np.zeros(len(list_alpha))
         precision_test= np.zeros(len(list_alpha))
         count = 0
```

```

for alpha in list_alpha:
    bayes = naive_bayes.MultinomialNB(alpha=alpha)
    bayes.fit(X_train, y_train)
    score_train[count] = bayes.score(X_train, y_train)
    score_test[count] = bayes.score(X_test, y_test)
    recall_test[count] = metrics.recall_score(y_test, bayes.predict(X_test), average='micro')
    precision_test[count] = metrics.precision_score(y_test, bayes.predict(X_test), average='micro')
    count = count + 1

```

```

In [79]: matrix = np.matrix(np.c_[list_alpha, score_train, score_test, recall_test, precision_test])
models = pd.DataFrame(data = matrix, columns =
    ['alpha', 'Train Accuracy', 'Test Accuracy', 'Test Recall', 'Test Precision'])
models.head(n=10)

```

```

Out[79]:
   alpha  Train Accuracy  Test Accuracy  Test Recall  Test Precision
0  0.00001         0.975874         0.907391         0.907391         0.907391
1  0.11001         0.967832         0.910359         0.910359         0.910359
2  0.22001         0.964322         0.910359         0.910359         0.910359
3  0.33001         0.963445         0.910359         0.910359         0.910359
4  0.44001         0.960813         0.909766         0.909766         0.909766
5  0.55001         0.955695         0.912140         0.912140         0.912140
6  0.66001         0.949700         0.911250         0.911250         0.911250
7  0.77001         0.942535         0.909172         0.909172         0.909172
8  0.88001         0.934493         0.906500         0.906500         0.906500
9  0.99001         0.928352         0.897596         0.897596         0.897596

```

```

In [80]: best_index = models['Test Precision'].idxmax()
models.iloc[best_index, :]

```

```

Out[80]:
alpha          0.550010
Train Accuracy  0.955695
Test Accuracy   0.912140
Test Recall     0.912140
Test Precision  0.912140
Name: 5, dtype: float64

```

```

In [81]: models[models['Test Precision']>0.9].head(n=5)

```

```

Out[81]:
   alpha  Train Accuracy  Test Accuracy  Test Recall  Test Precision
0  0.00001         0.975874         0.907391         0.907391         0.907391
1  0.11001         0.967832         0.910359         0.910359         0.910359
2  0.22001         0.964322         0.910359         0.910359         0.910359
3  0.33001         0.963445         0.910359         0.910359         0.910359
4  0.44001         0.960813         0.909766         0.909766         0.909766

```

```

In [82]: best_index = models[models['Test Precision']>0.912]['Test Accuracy'].idxmax()
bayes = naive_bayes.MultinomialNB(alpha=list_alpha[best_index])
bayes.fit(X_train, y_train)
models.iloc[best_index, :]

```

```
Out[82]: alpha          0.550010
        Train Accuracy  0.955695
        Test Accuracy   0.912140
        Test Recall     0.912140
        Test Precision   0.912140
        Name: 5, dtype: float64
```

1 Confusion Matrix with Naive Bayes

```
In [36]: m_confusion_test = metrics.confusion_matrix(y_test, bayes.predict(X_test))
        #pd.DataFrame([m_confusion_test], columns = ['Predicted 0', 'Predicted 1'],
        # index = ['Actual 0', 'Actual 1'])
        pd.DataFrame([m_confusion_test], columns = ['Predicted 0', 'Predicted 1'],
        index = ['Actual 0', 'Actual 1'])
```

```
ValueError                                Traceback (most recent call last)
```

```
<ipython-input-36-143034b434fb> in <module>
      3         # index = ['Actual 0', 'Actual 1'])
      4 pd.DataFrame([m_confusion_test], columns = ['Predicted 0'],
----> 5         index = ['Actual 0'])

/opt/jupyterhub/anaconda/lib/python3.6/site-packages/pandas/core/frame.py in __init__(
401         else:
402             mgr = self._init_ndarray(data, index, columns, dtype=dtype,
--> 403                                     copy=copy)
404         else:
405             mgr = self._init_dict({}, index, columns, dtype=dtype)

/opt/jupyterhub/anaconda/lib/python3.6/site-packages/pandas/core/frame.py in _init_ndar
513         # by definition an array here
514         # the dtypes will be coerced to a single dtype
--> 515         values = _prep_ndarray(values, copy=copy)
516
517         if dtype is not None:

/opt/jupyterhub/anaconda/lib/python3.6/site-packages/pandas/core/frame.py in _prep_ndar
7446         values = values.reshape((values.shape[0], 1))
7447     elif values.ndim != 2:
-> 7448         raise ValueError('Must pass 2-d input')
7449
```



```
7450         return values
```

```
ValueError: Must pass 2-d input
```

2 Support Vector Machine

```
In [30]: list_C = np.arange(500, 2000, 100) #100000
        score_train = np.zeros(len(list_C))
        score_test = np.zeros(len(list_C))
        recall_test = np.zeros(len(list_C))
        precision_test= np.zeros(len(list_C))
        count = 0
        for C in list_C:
            svc = svm.SVC(C=C)
            svc.fit(X_train, y_train)
            score_train[count] = svc.score(X_train, y_train)
            score_test[count]= svc.score(X_test, y_test)
            recall_test[count] = metrics.recall_score(y_test, svc.predict(X_test),average='mi
            precision_test[count] = metrics.precision_score(y_test, svc.predict(X_test),avera
            count = count + 1
```

```
/opt/jupyterhub/anaconda/lib/python3.6/site-packages/sklearn/svm/base.py:196: FutureWarning: T
"avoid this warning.", FutureWarning)
```

```
In [83]: matrix = np.matrix(np.c_[list_C, score_train, score_test, recall_test, precision_test]
        models = pd.DataFrame(data = matrix, columns =
            ['C', 'Train Accuracy', 'Test Accuracy', 'Test Recall', 'Test Precision']
        models.head(n=15)
```

```
ValueError                                Traceback (most recent call last)
```

```
<ipython-input-83-9203747bd982> in <module>
```

```
----> 1 matrix = np.matrix(np.c_[list_C, score_train, score_test, recall_test, precision_t
      2 models = pd.DataFrame(data = matrix, columns =
      3         ['C', 'Train Accuracy', 'Test Accuracy', 'Test Recall', 'Test Precisi
      4 models.head(n=15)
```

```
/opt/jupyterhub/anaconda/lib/python3.6/site-packages/numpy/lib/index_tricks.py in __get
333         objs[k] = objs[k].astype(final_dtype)
334
```

```
--> 335         res = self.concatenate(tuple(objs), axis=axis)
```

```
336
337         if matrix:
```

ValueError: all the input array dimensions except for the concatenation axis must match

```
In [32]: best_index = models['Test Precision'].idxmax()
        models.iloc[best_index, :]
```

```
Out[32]: C          1900.000000
        Train Accuracy    0.914900
        Test Accuracy     0.899377
        Test Recall       0.899377
        Test Precision     0.899377
        Name: 14, dtype: float64
```

```
In [33]: models[models['Test Precision']>0.8].head(n=5)
```

```
Out[33]:
```

	C	Train Accuracy	Test Accuracy	Test Recall	Test Precision
0	500.0	0.834479	0.832294	0.832294	0.832294
1	600.0	0.843983	0.839121	0.839121	0.839121
2	700.0	0.854072	0.848917	0.848917	0.848917
3	800.0	0.864308	0.853072	0.853072	0.853072
4	900.0	0.870449	0.863164	0.863164	0.863164

```
In [34]: best_index = models[models['Test Precision']>0.8]['Test Accuracy'].idxmax()
        svc = svm.SVC(C=list_C[best_index])
        svc.fit(X_train, y_train)
        models.iloc[best_index, :]
```

```
Out[34]: C          1900.000000
        Train Accuracy    0.914900
        Test Accuracy     0.899377
        Test Recall       0.899377
        Test Precision     0.899377
        Name: 14, dtype: float64
```

3 Confusion Matrix with supported Vector Machine

```
In [35]: m_confusion_test = metrics.confusion_matrix(y_test, svc.predict(X_test))
        pd.DataFrame(data = m_confusion_test, columns = ['Predicted 0', 'Predicted 1'],
                    row = ['Actual 0', 'Actual 1'])
```

```
-----
TypeError                                Traceback (most recent call last)
```

```

<ipython-input-35-1705192903bc> in <module>
      1 m_confusion_test = metrics.confusion_matrix(y_test, svc.predict(X_test))
      2 pd.DataFrame(data = m_confusion_test, columns = ['Predicted 0', 'Predicted 1'],
----> 3                  row = ['Actual 0', 'Actual 1'])

```

TypeError: __init__() got an unexpected keyword argument 'row'

```
In [84]: hactivist_detect_model = MultinomialNB().fit(X_train,y_train)
```

```
In [71]: i=0
        while(True):
            print('predicted:',hactivist_detect_model.predict(Tweets_tfidf)[i])
            print('expected:',Tweets.Label[i])
            i=i+1

```

```

predicted: 1
expected: 1
predicted: 0
expected: 1
predicted: 0
expected: 0
predicted: 0
expected: 0
predicted: 0
expected: 0
predicted: 0
expected: 0
predicted: 0
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predicted: 0
expected: 0
predicted: 0
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predicted: 0
expected: 0
predicted: 0
expected: 0

```

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

predicted: 0
expected: 0
predicted: 0
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[illegible]

predicted: 0
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[illegible]

predicted: 0
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IndexError

Traceback (most recent call last)

```
<ipython-input-71-97c1d5ac87eb> in <module>
      1 i=0
      2 while(True):
----> 3     print('predicted:',hacktivist_detect_model.predict(Tweets_tfidf)[i])
      4     print('expected:',Tweets.Label[i])
      5     i=i+1
```

IndexError: index 10208 is out of bounds for axis 0 with size 10208