Apply k-NN on Amazon reviews dataset

March 31, 2018

```
In [1]: %matplotlib inline
        import matplotlib.pyplot as plt
        import sqlite3
        import pandas as pd
        import numpy as np
        import nltk
        from sklearn.feature_extraction.text import TfidfVectorizer
        import re
        from sklearn.feature_extraction.text import CountVectorizer
```

```
In [17]: con = sqlite3.connect('./clean_final') # this is cleaned dataset
         final = pd.read_sql_query("""
         SELECT *
         FROM reviews
         """, con)
```

```
In [18]: def cleanhtml(sentence): #function to clean the word of any html-tags
             cleanr = re.compile('<.*?>')
             cleantext = re.sub(cleanr, ' ', sentence)
             return cleantext
         def cleanpunc(sentence): #function to clean the word of any punctuation or special char
             cleaned = re.sub(r'[?|!|\'|"|#]',r'',sentence)
             cleaned = re.sub(r'[.|,|)|(|\|/]',r' ',cleaned)
             return  cleaned
```

```
In [19]: final.head()
```

```
Out[19]:    level_0  index     Id   ProductId          UserId  \
         0    10618  16395  17899  B001E0653M  A21BMUL4UEY53N
         1     5581  23132  25312  B000MDCD0G  A1E1AX7DE5S18X
         2    10460  17867  19477  B001E05PW0  A2YAHDOYQK3JJJ
         3     6356   8644   9475  B000UBDKII  A2VRSADIZLOAU3
         4    18558  15674  17140  B00408F3XC  A1RWB3QBIPL85Y

                              ProfileName  HelpfulnessNumerator  \
         0                     chocoholic                      0
         1                          Nirac                      0
         2  Roger D. Lauzon "coaterfreak"                      0
```

```
3    Anne Cummings "annebanana"                    0
4      S. Largent "Digital XTC"                    0

   HelpfulnessDenominator     Score        Time  \
0                       0  positive  1294444800
1                       0  positive  1288224000
2                       0  positive  1285459200
3                       0  positive  1278115200
4                       0  positive  1329264000

                         Summary  \
0  Can't get much better than this.
1    Wonderful...Too Expensive Here
2                       great spice
3                               YUM
4              happy valentines day

                                                Text  \
0  This awesome mix is not your usual Hot Chocola...
1  I've never been a fan of tuna, however, after ...
2  these are the same spices thare used on the fo...
3  Great coffee.  We mix it with Godiva chocolate...
4  delivered on time for v day, packaged very wel...

                                   Text_not_included  \
0  b'awesom mix not usual hot chocol look not buy...
1  b'ive never fan tuna howev tri sundri tomato b...
2  b'spice thare use food network alway fresh gre...
3  b'great coffe mix godiva chocol coffe regular ...
4  b'deliv time day packag well instruct fresh be...

                                   Text_not_excluded  \
0  b'awesom mix usual hot chocol look buy product...
1  b'ive never fan tuna howev tri sundri tomato b...
2  b'spice thare use food network alway fresh gre...
3  b'great coffe mix godiva chocol coffe regular ...
4  b'deliv time day packag well instruct fresh be...

                                        clean_review  \
0  this awesome mix not your usual hot chocolate ...
1  ive never been fan tuna however after trying t...
2  these are the same spices thare used the food ...
3  great coffee mix with godiva chocolate coffee ...
4  delivered time for day packaged very well with...

                                      stemmed_review  \
0  b'this awesom mix not your usual hot chocol th...
1  b'ive never been fan tuna howev after tri this...
```

```
2  b'these are the same spice thare use the food ...
3  b'great coffe mix with godiva chocol coffe reg...
4  b'deliv time for day packag veri well with ins...

                                   average_Word2Vec  \
0  b'\xfa\x82\xbe\xf4)O\xe0\xbf\xd0\x17t\xdeO\x94...
1  b'\xd1E\x17\x914\x9f\xdd\xbft\xd1E\x85\xd8\xc5...
2  b'\xdb\xb6m\xfb\x9f\xa5\xe3\xbf%I\x92$/G\xa1?I...
3  b"\x1c\xc7q\x8c\xa0\xa1\xe2\xbf\xe48\x8e\xd3\x...
4  b'\xab\xaa\xaaz\xcc\xb6\xe0\xbf\xab\xaa\xea\x8...

                                     tfidf_Word2Vec
0  b'\xb6\xbdl\xac~\xb7\xdd\xbfXI\xf0;\x04&\xa4?\...
1  b'\xfc\xd1jVr)\xda\xbfK]9*0\x89\x95?\x06$\xc2[...
2  b"\xf75\xd4\x9b\xf1m\xe3\xbfo\xf0m\xa5\xb0l\xa...
3  b'\xc8\x16\x8f\xab\xc6K\xe2\xbfB\xb2d\x8a\xe2\...
4  b'\x00\x8c0\xb7\x1d\xbb\xde\xbfE\\\x11VGM\x95?...
```

```
In [20]: from nltk.corpus import stopwords
```

0.0.1 From previous exercise we know that excluding 'not' from set of stopwords improves separation between positive and negative reviews. At least for TF-IDF

```
In [21]: sno = nltk.stem.SnowballStemmer('english') #initialising the snowball stemmer
```

```
In [22]: # Stem 'clean_review'

         s=None

         stemmed_review=[]
         for sent in final['clean_review'].values:

             stems=[]
             for w in sent.split():

                 stems.append(sno.stem(w).encode('utf8'))

             s=b' '.join(stems)


             stemmed_review.append(s.decode())
```

```
In [23]: final['stemmed_review']=stemmed_review
```

```
In [25]: final['stemmed_review'].head()
```

```
Out[25]: 0    this awesom mix not your usual hot chocol that...
         1    ive never been fan tuna howev after tri this s...
         2    these are the same spice thare use the food ne...
         3    great coffe mix with godiva chocol coffe regul...
         4    deliv time for day packag veri well with instr...
         Name: stemmed_review, dtype: object

In [30]: final['level_0'].head()

Out[30]: 0    10618
         1     5581
         2    10460
         3     6356
         4    18558
         Name: level_0, dtype: int64

In [46]: db=sqlite3.connect('./clean_final.sqlite')
         cur=db.cursor()
         db.text_factory=str
         final.to_sql('reviews', db, if_exists='replace', index=False)

In [15]: # Randomly sample 2500 points
         import random
         final=final.iloc[random.sample(range(len(final)), 2500)]

In [34]: time_based_split=final.sort_values('Time')

In [37]: time_based_split.Text_not_included=[s.decode() for s in time_based_split.Text_not_inclu

In [39]: time_based_split.Text_not_excluded=[s.decode() for s in time_based_split.Text_not_exclu

In [42]: time_based_split=time_based_split.drop('level_0', axis=1)

In [45]: time_based_split.head()

Out[45]:      index     Id   ProductId          UserId           ProfileName  \
         1866  10992  11991  B0000T15M8  A2928LJN5IISB4               chatchi
         1793   6790   7432  B0001E1IME  A2IKCTD1I73PLW                 Adeba
         330    1112   1206  B0050072PC  A3BD5B8Y8MY25X  J. L. K. "special_k"
         365   14096  15390  B0002IMRTC    ALKOHQH542KO           G. Elliott
         659    5886   6374  B000084EKB  A1Z54EM24Y40LL                    c2

              HelpfulnessNumerator  HelpfulnessDenominator     Score        Time  \
         1866                     5                       5  positive  1067990400
         1793                     2                       8  positive  1083456000
         330                     13                      14  positive  1088467200
         365                      5                      15  positive  1090281600
         659                      0                       0  positive  1091059200

                                        Summary  \
         1866                The fruits of my labor
         1793                amazon monopoly/ripoff
330   The best twice baked potatoes you'll ever have!
365                              Peet says it's good.
659                                       Great food!

                                                 Text  \
1866  When chatchi's favorite afternoon treat became...
1793  love the snack.  wanted to buy a bunch.<p>ship...
330   Perfect year round with just about any meat di...
365   So it must be good.  He never lies to me.  Eve...
659   This version is ground.  NOt my current cat's ...

                                    Text_not_included  \
1866  chatchi favorit afternoon treat becam mysteri ...
1793  love snack want buy bunch ship amazon price sn...
330   perfect year round meat dish omaha steak twice...
365   must good never lie even skizip like drink str...
659   version ground not current cat favorit version...

                                    Text_not_excluded  \
1866  chatchi favorit afternoon treat becam mysteri ...
1793  love snack want buy bunch ship amazon price sn...
330   perfect year round meat dish omaha steak twice...
365   must good never lie even skizip like drink str...
659   version ground current cat favorit version rea...

                                         clean_review  \
1866  when chatchis favorite afternoon treat became ...
1793  love the snack wanted buy bunch shipping amazo...
330   perfect year round with just about any meat di...
365   must good never lies even skizip likes and all...
659   this version ground not current cats favorite ...

                                       stemmed_review  \
1866  when chatchi favorit afternoon treat becam mys...
1793  love the snack want buy bunch ship amazon more...
330   perfect year round with just about ani meat di...
365   must good never lie even skizip like and all d...
659   this version ground not current cat favorit ve...

                                     average_Word2Vec  \
1866  b'333v==\xdb\xbf\xef\xee\xee\xf9\xf8\xc4\x9a?\...
1793  b'\x9a\x99\x99M\x1e\n\xe2\xbf\xa8\x83:t\xec\x8...
330   b'F\x17]\xec\x87G\xdb\xbf]t\x11\xd7\xd3\x87\x9...
365   b'333\xfbR\xa9\xdf\xbf\xcd\xcc\xcc\x92\xbc\xbb...
659   b'\xc9g\xddl\x90\xf4\xdf\xbf\xc2\x14\xf9\x04\x...

                                       tfidf_Word2Vec
1866  b'/\x0b\xfb+\r\xd4\xce\xbfk";a1\x1c\x95?Uqc\xd...
```

```
1793    b'^\x15\xf3\xe1X\x08\xe2\xbf\x11\xe8W\x13\xa9\...
330     b'w^\x1f\xedP\x16\xd9\xbf\xe3\xef\xd6\xe0\x96\...
365     b'\x1fU\x91\x9d\xda{\xdc\xbf\xcc\xc1\xba\x88\x...
659     b'3\xc2\t\x1c\xa8\xf6\xdd\xbfc9\xf4\x95\xe1\r\...
```

```
In [ ]: db=sqlite3.connect('./clean_final.sqlite')
        cur=db.cursor()
        db.text_factory=str
        time_based_split.to_sql('reviews', db, if_exists='replace', index=False)
```

0.1 TF-IDF vector

```
In [193]: tf_idf = TfidfVectorizer(ngram_range=(1,2))
          bigrams_tf=tf_idf.fit_transform(time_based_split['Text_not_included'])
          bigrams_train_tf=bigrams_tf[:1750]
          bigrams_test_tf=bigrams_tf[1750:2500]
```

0.2 Average word2Vec vector

```
In [48]: import gensim
         i=0
         list_of_sent=[]
         for sent in time_based_split['Text_not_included'].values:
             filtered_sentence=[]
             for w in sent.split():
                 filtered_sentence.append(w)
             list_of_sent.append(filtered_sentence)
```

```
In [49]: np.array(list_of_sent).shape

Out[49]: (2500,)
```

```
In [50]: w2v_model=gensim.models.Word2Vec(list_of_sent,min_count=5,size=50, workers=4)

WARNING:gensim.models.base_any2vec:consider setting layer size to a multiple of 4 for greater pe
```

```
In [51]: # average Word2Vec
         # compute average word2vec for each review.
         sent_vectors = []; # the avg-w2v for each sentence/review is stored in this list
         for sent in list_of_sent: # for each review/sentence
             sent_vec = np.zeros(50) # as word vectors are of zero length
             cnt_words =0; # num of words with a valid vector in the sentence/review
             for word in sent: # for each word in a review/sentence
                 try:
                     vec = w2v_model.wv[word]
                     sent_vec += vec
                     cnt_words += 1
                 except:
```

```
                pass
        sent_vec /= cnt_words
        sent_vectors.append(sent_vec)
```

1 TF-IDF word2Vec

```
In [52]: tfidf_feat = tf_idf.get_feature_names() # tfidf words/col-names
         # final_tf_idf is the sparse matrix with row= sentence, col=word and cell_val = tfidf

         tfidf_sent_vectors = []; # the tfidf-w2v for each sentence/review is stored in this lis
         row=0
         for sent in list_of_sent: # for each review/sentence
             sent_vec = np.zeros(50) # as word vectors are of zero length
             weight_sum =0; # num of words with a valid vector in the sentence/review
             for word in sent: # for each word in a review/sentence
                 try:
                     vec = w2v_model.wv[word]
                     # obtain the tf_idfidf of a word in a sentence/review
                     tfidf = tf_idf_vect[row, tfidf_feat.index(word)]
                     sent_vec += (vec * tfidf)
                     weight_sum += tfidf
                 except:
                     pass
             sent_vec /= weight_sum
             tfidf_sent_vectors.append(sent_vec)
             row += 1
```

```
In [53]: sent_vectors[0]
```

```
Out[53]: array([ 0.7148837 ,  0.08005671, -0.03650757,  0.28071488,  0.27651436,
                -0.11791959,  0.19611861, -0.3056778 ,  0.33357832, -0.38980113,
                 0.38191011,  0.04367037, -0.34364644,  0.40775464, -0.60267878,
                -0.67429486, -0.07425891, -0.38215042,  0.5923246 , -0.17593618,
                 0.39752209,  0.19266622, -0.11856697, -0.19658204,  0.60234614,
                -0.05947708, -0.02989638, -0.02909582,  0.23693911,  0.0119263 ,
                -0.0016133 ,  0.13247287, -0.28407203,  0.11302154, -0.16785835,
                -0.54972464, -0.29596767, -0.43512824, -0.26735326, -0.07841764,
                 0.15785508, -0.17558218, -0.27171402,  0.04191722,  0.05334444,
                -0.11682048, -0.24933953,  0.20622117, -0.29056247, -0.20945565])
```

```
In [55]: time_based_split['Score'].as_matrix()
```

```
Out[55]: array(['positive', 'positive', 'positive', ..., 'positive', 'positive',
                'negative'], dtype=object)
```

```
In [2]: from sklearn.preprocessing import StandardScaler, MinMaxScaler
        from sklearn.model_selection import train_test_split
```

```
In [104]: time_based_split.average_Word2Vec.loc[378]
```

```
Out[104]: array([-0.4256128 ,  0.02614202,  0.16407779,  0.08662151,  0.17497523,
                 -0.18193097,  0.0281729 ,  0.68341499,  0.17128933, -0.28271772,
                  0.50343395, -0.16118439,  0.25213345,  0.49005483,  0.25563263,
                  0.08423763,  0.40145238,  0.37542342, -0.31176805, -0.69918819,
                  0.52160808,  0.26135075, -0.45022561,  0.01511199, -0.088507  ,
                 -0.05023587,  0.0529531 , -0.12090148,  0.1561996 , -0.26825495,
                 -0.46496859,  0.15726482,  0.60949802, -0.12534812, -0.12280237,
                 -0.09772088, -0.51514824, -0.17853833,  0.07670793,  0.21406705,
                  0.0167552 ,  0.13813511,  0.41138902,  0.05027483,  0.33643198,
                 -0.09686825, -0.15950203, -0.1730536 ,  0.45132825,  0.25198714])
```

```
In [56]: X_train_avgw2v, X_test_avgw2v, y_train_avgw2v, y_test_avgw2v = train_test_split(sent_ve
```

```
In [57]: X_train_tfidfw2v, X_test_tfidfw2v, y_train_tfidfw2v, y_test_tfidfw2v = train_test_split
```

1.1 BoW vector

```
In [192]: count_vect = CountVectorizer(ngram_range=(1,2) ) #in scikit-learn
          bigrams=count_vect.fit_transform(time_based_split['Text_not_included'])
          bigrams_train=bigrams[:1750]
          bigrams_test=bigrams[1750:2500]
```

```
In [59]: from sklearn.neighbors import KNeighborsClassifier
```

```
In [60]: from sklearn.cross_validation import cross_val_score
         from sklearn.metrics import accuracy_score
```

1.2 Classification using average word2Vec

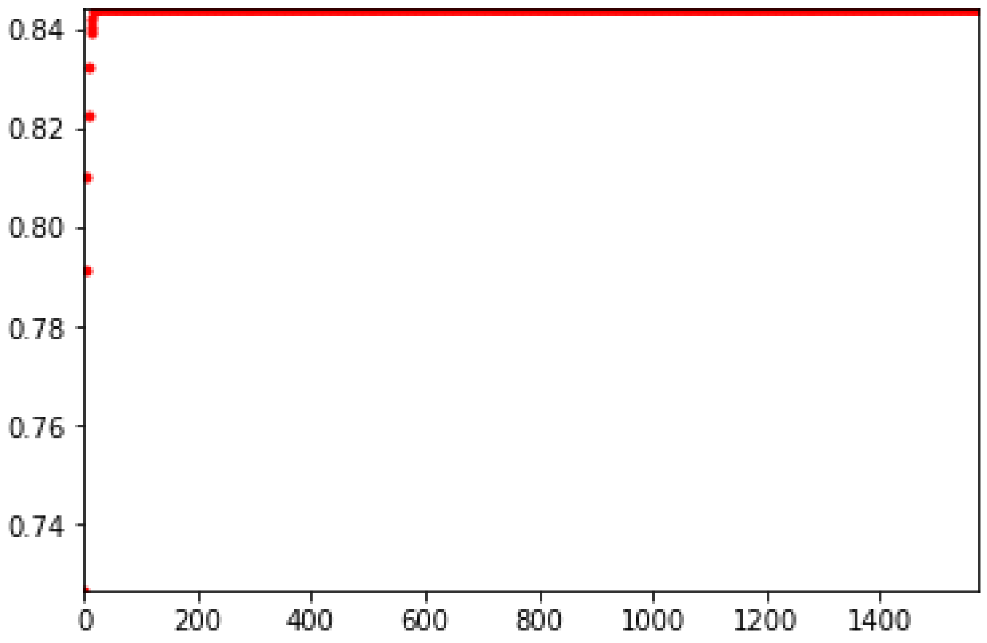
```
In [142]: a=np.ndarray(shape=(1750,50),dtype=float)
```

```
In [143]: for i, d in enumerate(X_train_avgw2v):
              a[i]=d
```

```
In [145]: x=[]
          y=[]
          for k in range(1,1575,2):
              model=KNeighborsClassifier(n_neighbors=k,weights='distance',algorithm='kd_tree')
              avg_accuracy_w=np.mean(cross_val_score(model,a, y_train_avgw2v,cv=10, scoring='acc
              x.append(k)
              y.append(avg_accuracy_w)
```

```
In [146]: plt.plot( x,y, 'r.')
          plt.xlim(np.min(x), np.max(x))
          plt.ylim(np.min(y), np.max(y))
```

```
Out[146]: (0.72685807583221373, 0.84400671742051059)
```



```
In [147]: np.argmax(y)

Out[147]: 10

In [210]: x[np.argmax(y)]

Out[210]: 21

In [149]: np.max(y)

Out[149]: 0.84400671742051059

In [150]: np.min(y)

Out[150]: 0.72685807583221373
```

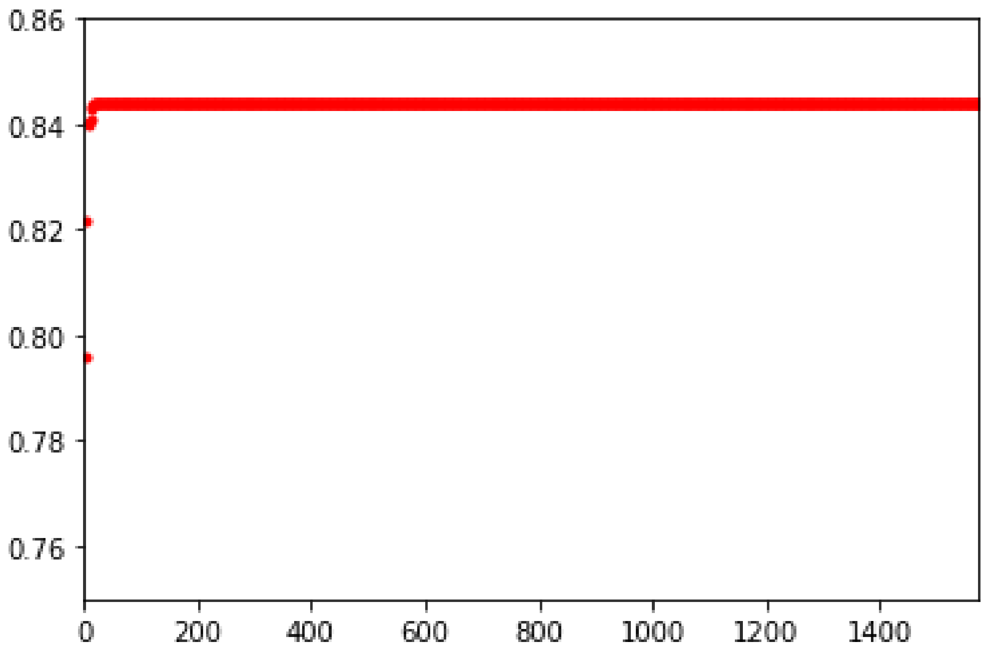
1.3 Classification using weighted tfidf_word2Vec

```
In [132]: b=np.ndarray(shape=(1750,50),dtype=float)
          for i, d in enumerate(X_train_tfidfw2v):
              b[i]=d

In [134]: x_tf=[]
          y_tf=[]
          for k in range(1,1575,2):
              model=KNeighborsClassifier(n_neighbors=k,weights='distance',algorithm='kd_tree')
              avg_accuracy=np.mean(cross_val_score(model,b, y_train_avgw2v,cv=10, scoring='accur
              x_tf.append(k)
              y_tf.append(avg_accuracy)
```

```
In [135]: plt.plot( x_tf,y_tf, 'r.')
          plt.xlim(np.min(x_tf), np.max(x_tf))
          plt.ylim(np.min(y_tf), np.max(y_tf))

Out[135]: (0.75, 0.86)
```



```
In [136]: np.argmax(y_tf)

Out[136]: 8

In [211]: x_tf[np.argmax(y_tf)]

Out[211]: 17

In [138]: np.max(y_tf)

Out[138]: 0.8440067174205105 9

In [139]: np.min(y_tf)

Out[139]: 0.7422940364233467 9
```

1.4 Classification using BoW

```
In [194]: neighbors=[]
          accuracy=[]
          for k in range(1, 1574, 2):
            model=KNeighborsClassifier(n_neighbors=k,algorithm='kd_tree', weights='distance')
            avg_accuracy_bow=np.mean(cross_val_score(model, bigrams_train, y_train_avgw2v,cv=1
            neighbors.append(k)
            accuracy.append(avg_accuracy_bow)
```

```
/home/vishal/anaconda3/lib/python3.6/site-packages/sklearn/neighbors/base.py:212: UserWarning: c
  warnings.warn("cannot use tree with sparse input: "
/home/vishal/anaconda3/lib/python3.6/site-packages/sklearn/neighbors/base.py:212: UserWarning: c
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/home/vishal/anaconda3/lib/python3.6/site-packages/sklearn/neighbors/base.py:212: UserWarning: c
  warnings.warn("cannot use tree with sparse input: "
/home/vishal/anaconda3/lib/python3.6/site-packages/sklearn/neighbors/base.py:212: UserWarning: c
  warnings.warn("cannot use tree with sparse input: "
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  warnings.warn("cannot use tree with sparse input: "
/home/vishal/anaconda3/lib/python3.6/site-packages/sklearn/neighbors/base.py:212: UserWarning: c
  warnings.warn("cannot use tree with sparse input: "
/home/vishal/anaconda3/lib/python3.6/site-packages/sklearn/neighbors/base.py:212: UserWarning: c
  warnings.warn("cannot use tree with sparse input: "
/home/vishal/anaconda3/lib/python3.6/site-packages/sklearn/neighbors/base.py:212: UserWarning: c
```

```
  warnings.warn("cannot use tree with sparse input: "
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```
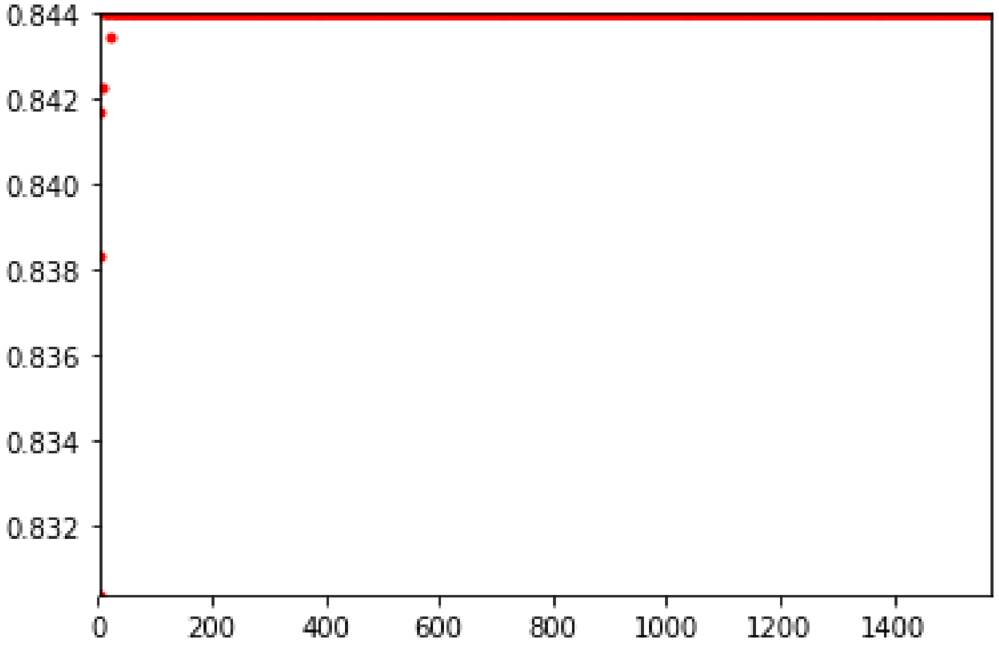

```
In [195]: plt.plot( neighbors,accuracy, 'r.')
          plt.xlim(np.min(neighbors), np.max(neighbors))
          plt.ylim(np.min(accuracy), np.max(accuracy))

Out[195]: (0.83037050306015825, 0.84400671742051059)
```



```
In [196]: np.argmax(accuracy)

Out[196]: 4

In [197]: neighbors[np.argmax(accuracy)]

Out[197]: 9

In [198]: np.max(accuracy)

Out[198]: 0.84400671742051059

In [199]: np.min(accuracy)

Out[199]: 0.83037050306015825
```

1.5 Classification using TF-IDF - TSNE best performer

```
In [200]: neighbors_tf=[]
          accuracy_tf=[]
          for k in range(1, 1574, 2):
              model=KNeighborsClassifier(n_neighbors=k,algorithm='kd_tree', weights='distance',n
              avg_accuracy_tf=np.mean(cross_val_score(model, bigrams_train_tf, y_train_avgw2v,cv
              neighbors_tf.append(k)
              accuracy_tf.append(avg_accuracy_tf)
```

```
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```
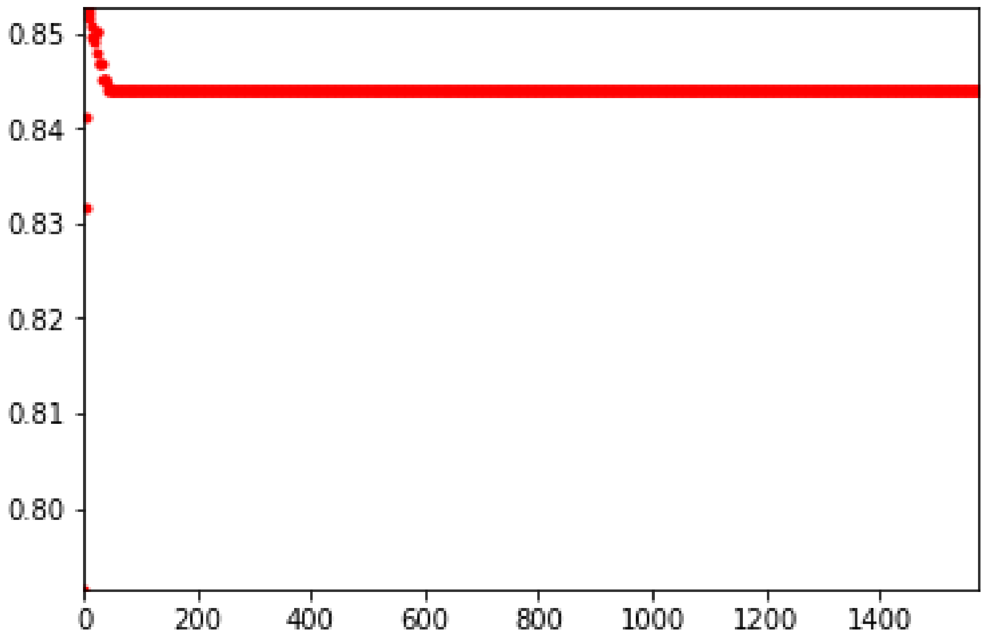

```
In [201]: plt.plot( neighbors_tf,accuracy_tf, 'r.')
          plt.xlim(np.min(neighbors_tf), np.max(neighbors_tf))
          plt.ylim(np.min(accuracy_tf), np.max(accuracy_tf))

Out[201]: (0.79150264964920136, 0.85258811016569636)
```



```
In [202]: np.argmax(accuracy_tf)

Out[202]: 3

In [203]: neighbors_tf[np.argmax(accuracy_tf)]

Out[203]: 7

In [204]: np.max(accuracy_tf)

Out[204]: 0.85258811016569636
```

1.6 Tabulating the results

```
In [216]: results=pd.DataFrame(columns=['vectorization_method',
                                        'max_accuracy_on_cross_validation_set', 'optimal_k'])
```

```
In [217]: results=results.append(
                [
                    {
                        'vectorization_method' : 'bag_of_words',

                        'max_accuracy_on_cross_validation_set' : 0.84,
                        'optimal_k': 9
                    },

                    {
                        'vectorization_method' : 'tf_idf',

                        'max_accuracy_on_cross_validation_set' : 0.85,
                        'optimal_k': 9
                    },

                    {
                        'vectorization_method' : 'average_word2Vec',

                        'max_accuracy_on_cross_validation_set' : 0.84,
                        'optimal_k': 21
                    },

                    {
                        'vectorization_method' : 'tf_idf_weighted_word2Vec',

                        'max_accuracy_on_cross_validation_set' : 0.84,
                        'optimal_k' : 17
                    }
                ]
            )
```

```
In [218]: results
```

```
Out[218]:        vectorization_method  max_accuracy_on_cross_validation_set optimal_k
          0              bag_of_words                                  0.84         9
          1                    tf_idf                                  0.85         9
          2          average_word2Vec                                  0.84        21
          3  tf_idf_weighted_word2Vec                                  0.84        17
```

1.7 test data

```
In [219]: test_set_accuracy=[]
```

```
# bag_of_words
model_bow=KNeighborsClassifier(n_neighbors=int(results[results.vectorization_method=='
                               weights='distance', algorithm='brute')
model_bow.fit(bigrams_train, y_train_avgw2v)
test_set_accuracy.append(accuracy_score(y_test_avgw2v, model_bow.predict(bigrams_test)

# tf_idf
model_tfidf=KNeighborsClassifier(n_neighbors=int(results[results.vectorization_method=
                               weights='distance', algorithm='brute')
model_tfidf.fit(bigrams_train_tf, y_train_tfidfw2v)
test_set_accuracy.append(accuracy_score(y_test_avgw2v ,model_tfidf.predict(bigrams_tes

# average_word2Vec
model_avg_word2Vec = KNeighborsClassifier(n_neighbors=int(results[results.vectorizatio
                               weights='distance', algorithm='kd_tree')
model_avg_word2Vec.fit(X_train_avgw2v, y_train_avgw2v)
test_set_accuracy.append(accuracy_score(y_test_avgw2v ,model_avg_word2Vec.predict(X_te

# tfidf weighted word2Vec
model_tfidf_word2Vec = KNeighborsClassifier(n_neighbors=int(results[results.vectorizat
                               weights='distance', algorithm='kd_tree')
model_tfidf_word2Vec.fit(X_train_tfidfw2v, y_train_tfidfw2v)
test_set_accuracy.append(accuracy_score(y_test_tfidfw2v ,model_tfidf_word2Vec.predict(
```

```
In [220]: results['test_set_outcome']=test_set_accuracy
```

```
In [221]: results
```

```
Out[221]:       vectorization_method  max_accuracy_on_cross_validation_set optimal_k  \
          0             bag_of_words                                  0.84         9
          1                   tf_idf                                  0.85         9
          2          average_word2Vec                                  0.84        21
          3  tf_idf_weighted_word2Vec                                  0.84        17

             test_set_outcome
          0          0.822667
          1          0.836000
          2          0.822667
          3          0.822667
```

2 Conclusion

TF-IDF produces the most accurate vector representations of text reviews