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Ranked 3rd
6.12.2017

DSE220 Amazon Product Review Kaggle Competition

Model 1: ensemble_gb_0.168_rounding1_6.10.2017.csv
Public Score: 0.16171
Private Score: 0.16457

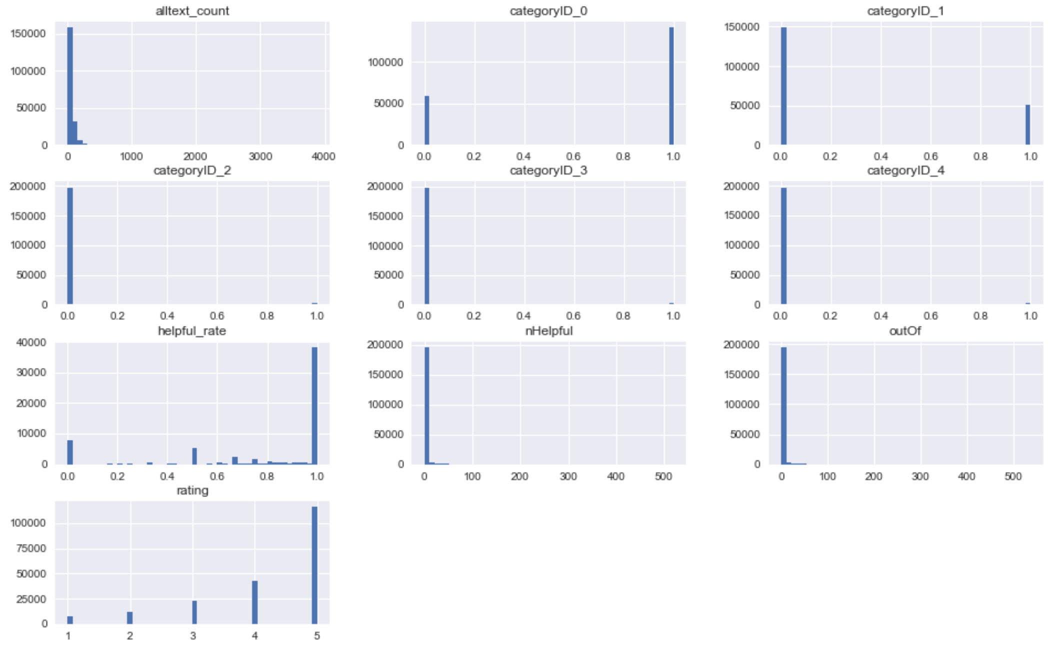
Methodology

I. Data Preprocessing

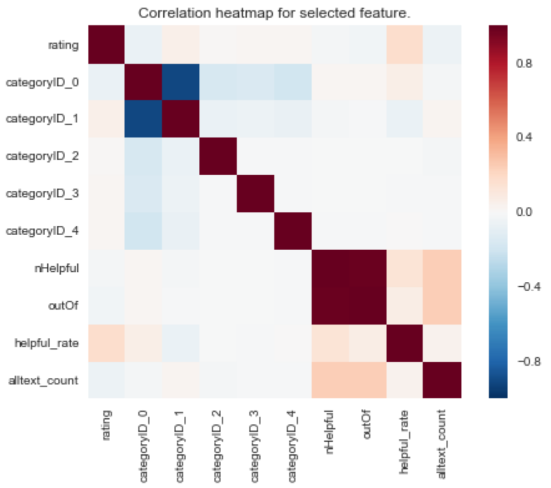
Following the Baseline.pynb file, the data was loaded into Jupyter Notebook appropriately as a pandas dataframe and the shape and the contents of the dataframe examined. The distribution of null values and unique values was evaluated for the training dataset, finding that the column price should be dropped due to ~63% of the values being null and reviewHash dropped due values from the feature being completely unique. The function data_preprocessing turned the categorical feature, categoryID, into binarized features inorder for models to be able to use it, removed categoryID, converted reviewTime into a pandas datetime value, and removed reviewHash and price. The helpful_ratio (nHelpful/outOf) was computed for the training dataset. Furthermore, the reviewText was inputted into functions associated with counting the number of words and the number of key words (without punctuation and stopwords) in each reviewText instances. This final dataframe was used for data exploration.

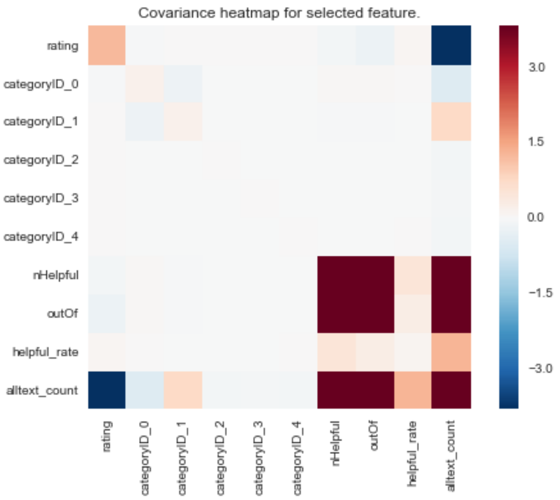
II. Data Exploration

The dataframe with the alltext_count, categoryID_0-4, helpful_rate, nHelpful, out of, and rating. The distribution of instances among the features was examined using simple histograms, finding that the class attribute, nHelpful, following a head-and-tail distribution with the majority of the instances falling below nHelpful < 10.

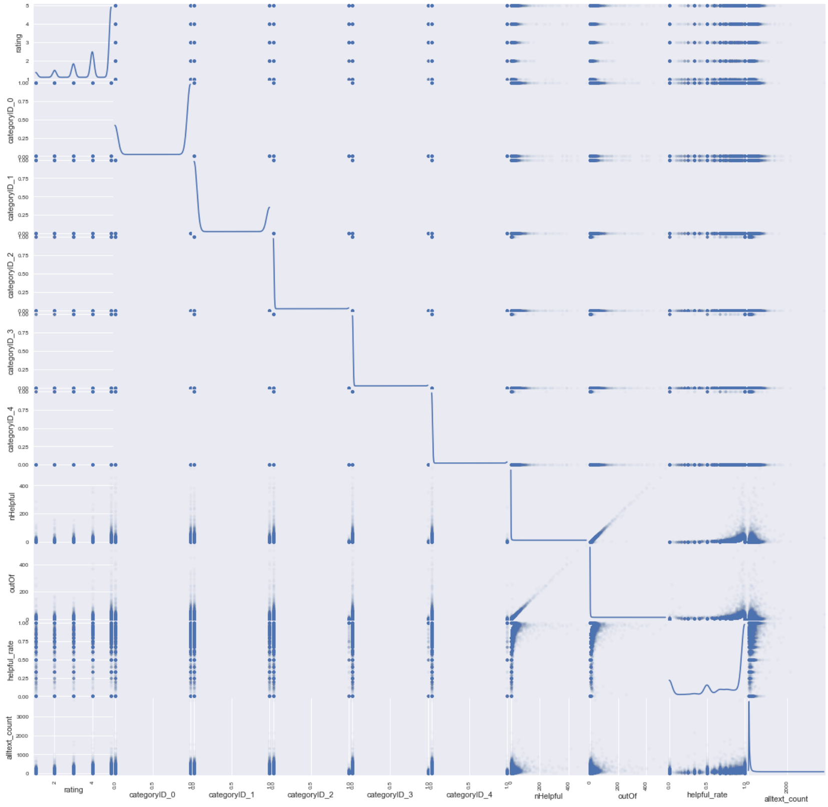


Next, simple statistics were analyzed in the dataset, finding that the nHelpful feature varied from 0 to 520 with an average of 1.1153 (this is due to the majority of the outOf values being equal to 1). While visualizing the covariance and correlation heatmap matrices among the features, it was noted that the relationship between out of and the helpful_rate is significant, of course as expected.





Scatter matrices were generated to compare the distribution changes between each of the features, most notably seeing that the relationship between outOf and helpful_rate showed that the majority of the data belonged to outOf <= 1 and helpful_rate > 0.9.



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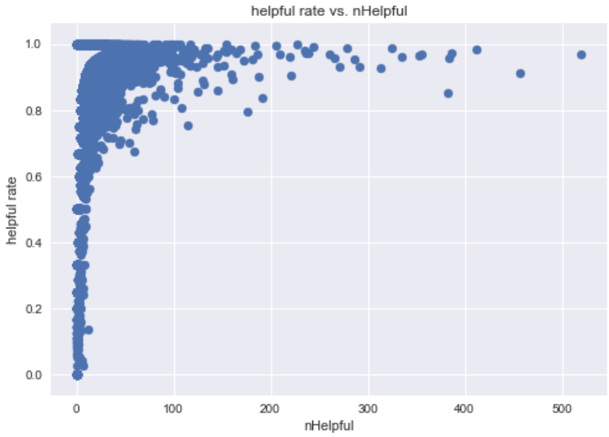
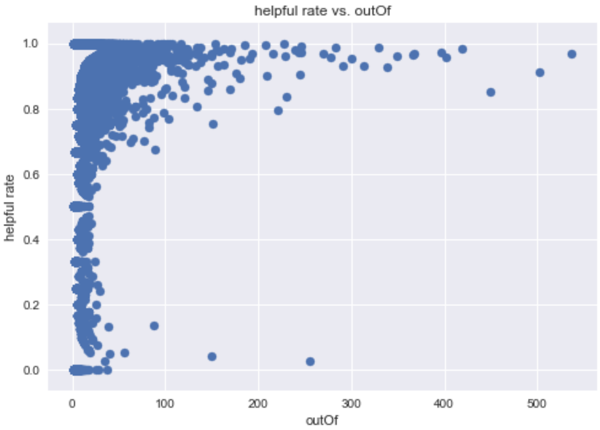
The scatter plots for helpful rate vs. outOf and helpful rate vs. nHelpful were analyzed. This provided the idea that an ensemble of algorithms should be used to predict nHelpful, that the helpful_rate should be used to indirectly predict nHelpful, and that certain constraints or thresholds should be made on the models depending on the value of out of.





III. Modeling
The following features were used to predict nHelpful (following feature relationship analysis): 'rating', 'outOf', 'categoryID_0', 'categoryID_1', 'categoryID_2', 'categoryID_3', 'categoryID_4'

To prevent overfitting, the training set was iteratively split into training and validation sets based on the random_state feature. GridSearchCV was used to iteratively determine the model which decreased the mae the most and was done by using 10-fold cross-validation on the inputted training set and testing on varied validation sets. Majority vote for the different models was used to create the final model and the model with the lowest mae was chosen.

Chosen Model
If outOf == 0 then helpful_rate = 0;
Elif outOf == 1 then predict helpful_rate using the optimized gradient boosting classifier:

```
gbclf = ensemble.GradientBoostingClassifier(criterion='friedman_mse', init=None,
  learning_rate=0.1, loss='deviance', max_depth=4,
  max_features=None, max_leaf_nodes=None,
  min_impurity_split=1e-07, min_samples_leaf=1,
  min_samples_split=2, min_weight_fraction_leaf=0.0,
  n_estimators=100, presort='auto', random_state=None,
  subsample=1.0, verbose=0, warm_start=False)
```

Else then predict helpful_rate using the optimized gradient boosting regressor:

```
gref = ensemble.GradientBoostingRegressor(alpha=0.9, criterion='friedman_mse',
init=None,
 learning_rate=0.1, loss='lad', max_depth=4, max_features=None,
 max_leaf_nodes=None, min_impurity_split=1e-07,
 min_samples_leaf=1, min_samples_split=2,
 min_weight_fraction_leaf=0.0, n_estimators=100,
 presort='auto', random_state=None, subsample=1.0, verbose=0,
 warm_start=False)
```

Following acquiring predictions, the helpful_rate values were multiplied with outOf values. The resulting values were rounded and exported as a .csv file. After 10 iterations of different validation sets, the “mean” mae was 0.168.

Model 2: predictions_gbreg_rounding_Helpful.csv
Public Score: 0.16271
Private Score: 0.16857

The same data pre-processing, data exploration, and data preparation was used to create the model, but this model was directly predicting nHelpful (without use of helpful_rate).

Chosen Model
The following features were used:
'rating', 'outOf', 'categoryID_0', 'categoryID_1', 'categoryID_2', 'categoryID_3', 'categoryID_4'

If outOf == 0 then nHelpful = 0;
Else predict nHelpful using the optimized gradient boosting classifier:

```
gbreg1 = ensemble.GradientBoostingRegressor(alpha=0.9, criterion='friedman_mse',
init=None,
 learning_rate=0.1, loss='lad', max_depth=4, max_features=None,
 max_leaf_nodes=None, min_impurity_split=1e-07,
 min_samples_leaf=1, min_samples_split=2,
 min_weight_fraction_leaf=0.0, n_estimators=100,
 presort='auto', random_state=None, subsample=1.0, verbose=0,
 warm_start=False)
```

Following acquiring predictions, the nHelpful values were rounded and exported as a .csv file.

Model 1 worked significantly better due to the use of cross-fold validation and through iteratively creating different training and validation sets.

Final Model 1

June 12, 2017

1 Final: Amazon Product Review Kaggle Competition

2 Model 1

2.1 DSE 220: Machine Learning

2.2 Due Date: 11 June 2017

2.3 Orysya Stus

```
In [72]: import pandas as pd
         import numpy as np
         from collections import defaultdict
         import gzip
         import matplotlib as plt
         %pylab inline

         from sklearn.cross_validation import StratifiedKFold, cross_val_predict
         from sklearn import preprocessing
```

```
Populating the interactive namespace from numpy and matplotlib


C:\Users\Orysya\Anaconda\envs\py36\lib\site-packages\IPython\core\magics\pylab.py:1
`%matplotlib` prevents importing * from pylab and numpy
  "\n`%matplotlib` prevents importing * from pylab and numpy"
```

```
In [2]: def readGz(f):
          for l in gzip.open(f):
            yield eval(l)

        def parse(path):
          g = gzip.open(path, 'rb')
          for l in g:
            yield eval(l)

        def getDF(path):
          i = 0
```

```
      df = {}
      for d in parse(path):
        df[i] = d
        i += 1
      return pd.DataFrame.from_dict(df, orient='index')

    train_df = getDF('train.json.gz')
    test_df = getDF('test_Helpful.json.gz')
```

2.4 Data Processing & Feature Engineering

```
In [3]: print('The shape of train_df is', train_df.shape)
        train_df.head(2)

The shape of train_df is (200000, 12)


Out[3]:    categoryID                                          categories     itemI
        0           0  [[Clothing, Shoes & Jewelry, Women], [Clothing...  I65535532
        1           0  [[Clothing, Shoes & Jewelry, Women, Clothing, ...  I24109231

           reviewerID  rating                                         reviewText  \
        0  U745881038     3.0  These are cute, but they are a little small.  ...
        1  U023577405     4.0  I love the look of this bra, it is what I want...

           reviewHash   reviewTime                        summary  unixReviewTime
        0  R115160670  05 20, 2014                           Cute      1400544000
        1  R800651687   02 7, 2013  Beautiful but size runs small      1360195200

                                helpful  price
        0  {'outOf': 0, 'nHelpful': 0}    NaN
        1  {'outOf': 0, 'nHelpful': 0}    NaN

In [10]: # Examine the number of null values in the train_df
         print(train_df.isnull().sum())
         print('\n Column price needs to be dropped since', train_df['price'].isnul

categoryID             0
categories             0
itemID                 0
reviewerID             0
rating                 0
reviewText             0
reviewHash             0
reviewTime             0
summary                0
unixReviewTime         0
helpful                0
price             125851
```

```
dtype: int64

 Column price needs to be dropped since 62.9255 % of the data is null.
```

```
In [66]: # Determine which items might be too unique for predictive purposes
         print('For column itemID, there are ', train_df['itemID'].nunique(), 'uni
         print('For column itemID, there are ', train_df['reviewerID'].nunique(), '
         print('For column itemID, there are ', train_df['reviewHash'].nunique(), '
         print('For column itemID, there are ', train_df['categoryID'].nunique(), '

         print('\n All values for reviewHash are unique, thus column reviewHash doe
```

```
For column itemID, there are  19913 unique values for 200000 instances.
For column itemID, there are  39249 unique values for 200000 instances.
For column itemID, there are  200000 unique values for 200000 instances.
For column itemID, there are  5 unique values for 200000 instances.

 All values for reviewHash are unique, thus column reviewHash does not provide any
```

```
In [4]: print('The shape of train_df is', test_df.shape)
        test_df.head(2)
```

```
The shape of train_df is (14000, 12)
```

```
Out[4]:    categoryID                                         categories      itemI
        0           0  [[Sports & Outdoors, Other Sports, Dance, Clot...  I52093239
        1           0  [[Sports & Outdoors, Clothing, Women, Hoodies]...  I96953233

           reviewerID  rating                                        reviewText  \
        0  U816789534     3.0  I ordered according to the size chart but it's...
        1  U987148846     4.0  Super thin but really cute and not cheap-looki...

           reviewHash   reviewTime     summary  unixReviewTime       helpful  price
        0  R157684793  07 15, 2011   Too small      1310688000  {'outOf': 2}    NaN
        1  R732719858  07 17, 2013  Fun hoodie      1374019200  {'outOf': 0}    NaN
```

```
In [83]: def data_preprocessing(dataframe):
             """The function breaksdown the helpful colum into outOf & nHelpful. Co
             reviewHash (unique, provides no predictive power). Takes categoryID an
             deleted categoryID."""
             dummies = pd.get_dummies(dataframe['categoryID']).rename(columns=lambd
             dataframe = pd.concat([dataframe, dummies], axis=1)
             del dataframe['categoryID']
             helpful = pd.DataFrame.from_dict(dict(dataframe['helpful'])).T
             dataframe = pd.concat([dataframe, helpful], axis=1)
             del dataframe['helpful']
             dataframe['reviewTime'] = pd.to_datetime(dataframe['reviewTime'])
             del dataframe['unixReviewTime']
             del dataframe['reviewHash']
             del dataframe['price']
             return dataframe

In [84]: def get_helpful_rate(dataframe):
             """The function creates the field helpful_rate."""
             dataframe['helpful_rate'] = dataframe['nHelpful']/dataframe['outOf']
             return dataframe

In [85]: train = data_preprocessing(train_df)
         # The helpful_rate (nHelpful/outof) might be a better feature holding more
         train = get_helpful_rate(train)
         train.head(2)

Out[85]:                                           categories      itemID  reviewer
         0  [[Clothing, Shoes & Jewelry, Women], [Clothing...  I655355328  U7458810
         1  [[Clothing, Shoes & Jewelry, Women, Clothing, ...  I241092314  U0235774

            rating                                         reviewText reviewTime  \
         0     3.0  These are cute, but they are a little small.  ... 2014-05-20
         1     4.0  I love the look of this bra, it is what I want... 2013-02-07

                                  summary  categoryID_0  categoryID_1  categoryID_2
         0                           Cute             1             0             0
         1  Beautiful but size runs small             1             0             0

            categoryID_3  categoryID_4  nHelpful  outOf  helpful_rate
         0             0             0         0      0           NaN
         1             0             0         0      0           NaN

In [86]: test = data_preprocessing(test_df)
         test.head(2)

Out[86]:                                           categories      itemID  reviewer
         0  [[Sports & Outdoors, Other Sports, Dance, Clot...  I520932398  U8167895
         1  [[Sports & Outdoors, Clothing, Women, Hoodies]...  I969532331  U9871488

            rating                                         reviewText reviewTime  \
         0     3.0  I ordered according to the size chart but it's... 2011-07-15
         1     4.0  Super thin but really cute and not cheap-looki... 2013-07-17

               summary  categoryID_0  categoryID_1  categoryID_2  categoryID_3  \
         0   Too small             1             0             0             0
         1  Fun hoodie             1             0             0             0

            categoryID_4  outOf
         0             0      2
         1             0      0
```

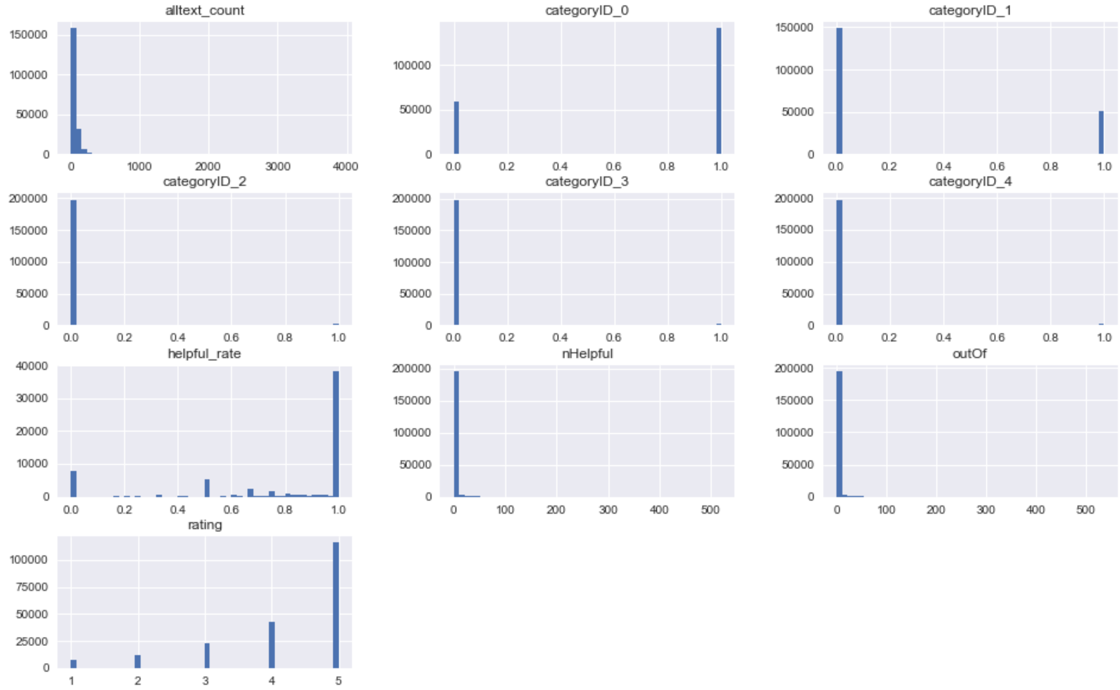
In [112]:
```
from nltk.corpus import stopwords
import string
from itertools import chain

def reviewText_listed(row):
    all_words = row.split()
    all_words = [w.lower() for w in all_words]
#     subset_list = [''.join(c for c in s if c not in string.punctuation)
#     subset_list = [w for w in subset_list if w != '']
#     subset_list = [word for word in subset_list if word not in stopword
#     return all_words, len(all_words), subset_list, len(subset_list)
    return len(all_words)

def reviewText_processing(dataframe):
    """The function returns 4 dictionaries (all review text words, all re
    words count, content (non-punctuation & non-stopwords) text words, co
    words count, & a vocabulary list of the content words)."""
#     review_allText = {}
    review_allText_count = {}
#     review_keyText = {}
#     review_keyText_count = {}
#     vocabulary = []
    count = 0
#     if subset_on == 'True':
#         dataframe = dataframe[dataframe['outOf'] != 0]
#     else:
#         dataframe = dataframe
    reviewText = list(dataframe['reviewText'])
    for text in reviewText:
#         all_, all_count, subset_, subset_count = reviewText_listed(text
        all_count = reviewText_listed(text)
#         review_allText[count] = all_
        review_allText_count[count] = all_count
#         review_keyText[count] = subset_
#         review_keyText_count[count] = subset_count
#         vocabulary.append(subset_)
        count += 1
#     vocabulary = set(list(chain.from_iterable(vocabulary)))
    return dataframe, review_allText_count
#     return dataframe, review_allText, review_allText_count, review_key
```

In [113]:
```
train, train_alltext_count = reviewText_processing(train)
train['alltext_count'] = list(train_alltext_count.values())
# train['keytext_count'] = list(train_keytext_count.values())
# train['key_vs_all_ratio'] =train['keytext_count']/train['alltext_count

test, test_alltext_count = reviewText_processing(test)
test['alltext_count'] = list(test_alltext_count.values())
```

```
# test['keytext_count'] = list(test_keytext_count.values())
# test['key_vs_all_ratio'] = test['keytext_count']/test['alltext_count']
```

2.5 Data Exploration

```
In [121]: train.hist(bins = 50, figsize=(16,10));
```

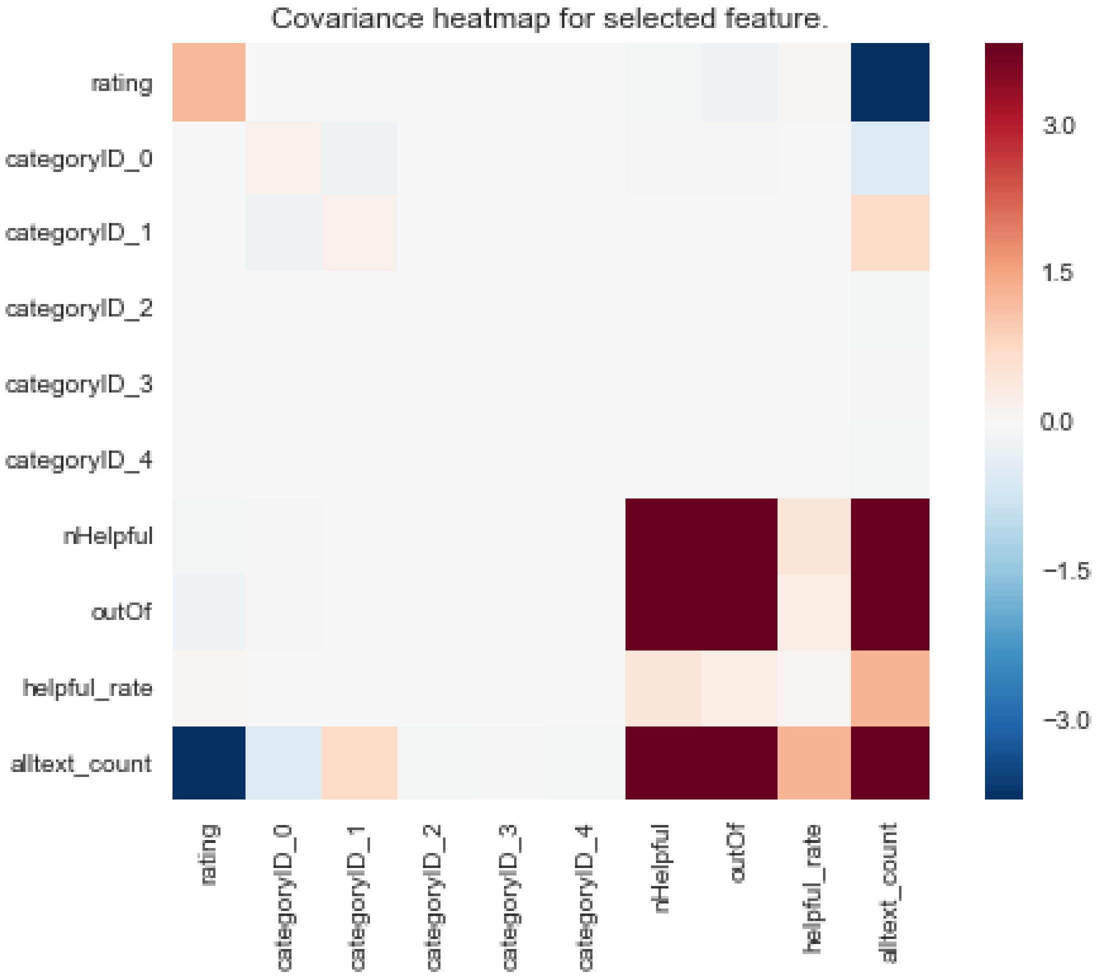


```
In [116]: train.describe()

Out[116]:                 rating    categoryID_0    categoryID_1    categoryID_2  \
          count  200000.000000   200000.000000   200000.000000   200000.000000
          mean        4.233590        0.707050        0.256990        0.011730
          std         1.107719        0.455117        0.436975        0.107668
          min         1.000000        0.000000        0.000000        0.000000
          25%         4.000000        0.000000        0.000000        0.000000
          50%         5.000000        1.000000        0.000000        0.000000
          75%         5.000000        1.000000        1.000000        0.000000
          max         5.000000        1.000000        1.000000        1.000000

                  categoryID_3    categoryID_4        nHelpful           outOf  \
          count  200000.000000   200000.000000   200000.000000   200000.000000
          mean        0.009540        0.014690        1.115355        1.309145
          std         0.097206        0.120309        5.863531        6.307235
          min         0.000000        0.000000        0.000000        0.000000
          25%         0.000000        0.000000        0.000000        0.000000
```

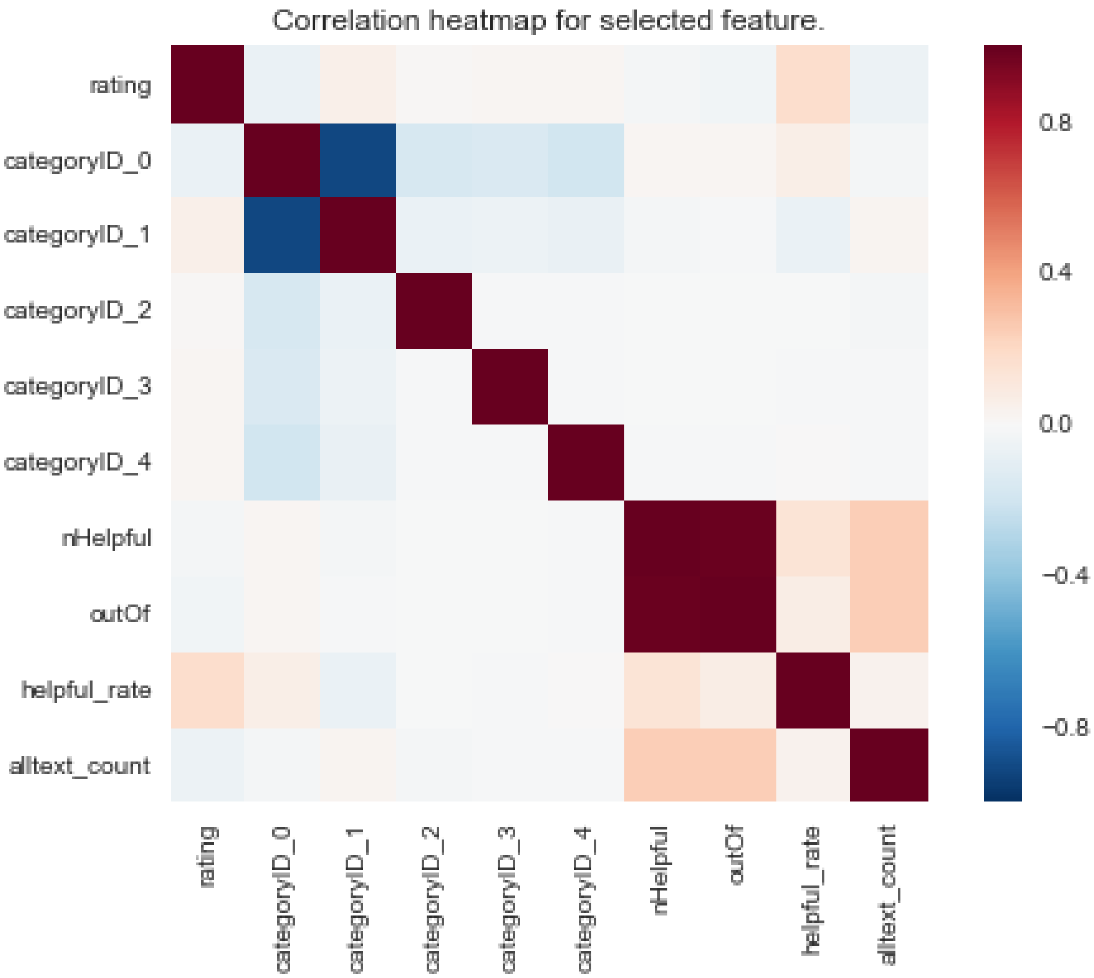
```
50%          0.000000       0.000000       0.000000       0.000000
75%          0.000000       0.000000       1.000000       1.000000
max          1.000000       1.000000     520.000000     537.000000

       helpful_rate  alltext_count
count  63016.000000  200000.000000
mean       0.782856      59.164485
std        0.344661      59.263191
min        0.000000       0.000000
25%        0.666667      26.000000
50%        1.000000      41.000000
75%        1.000000      69.000000
max        1.000000    3882.000000
```

```
In [117]: import seaborn as sns
          mat = train.cov() # to get a heatmap of the covariance matrix
          a = sns.heatmap(mat, vmax=1, square = True)
          a.set_title('Covariance heatmap for selected feature.')
```

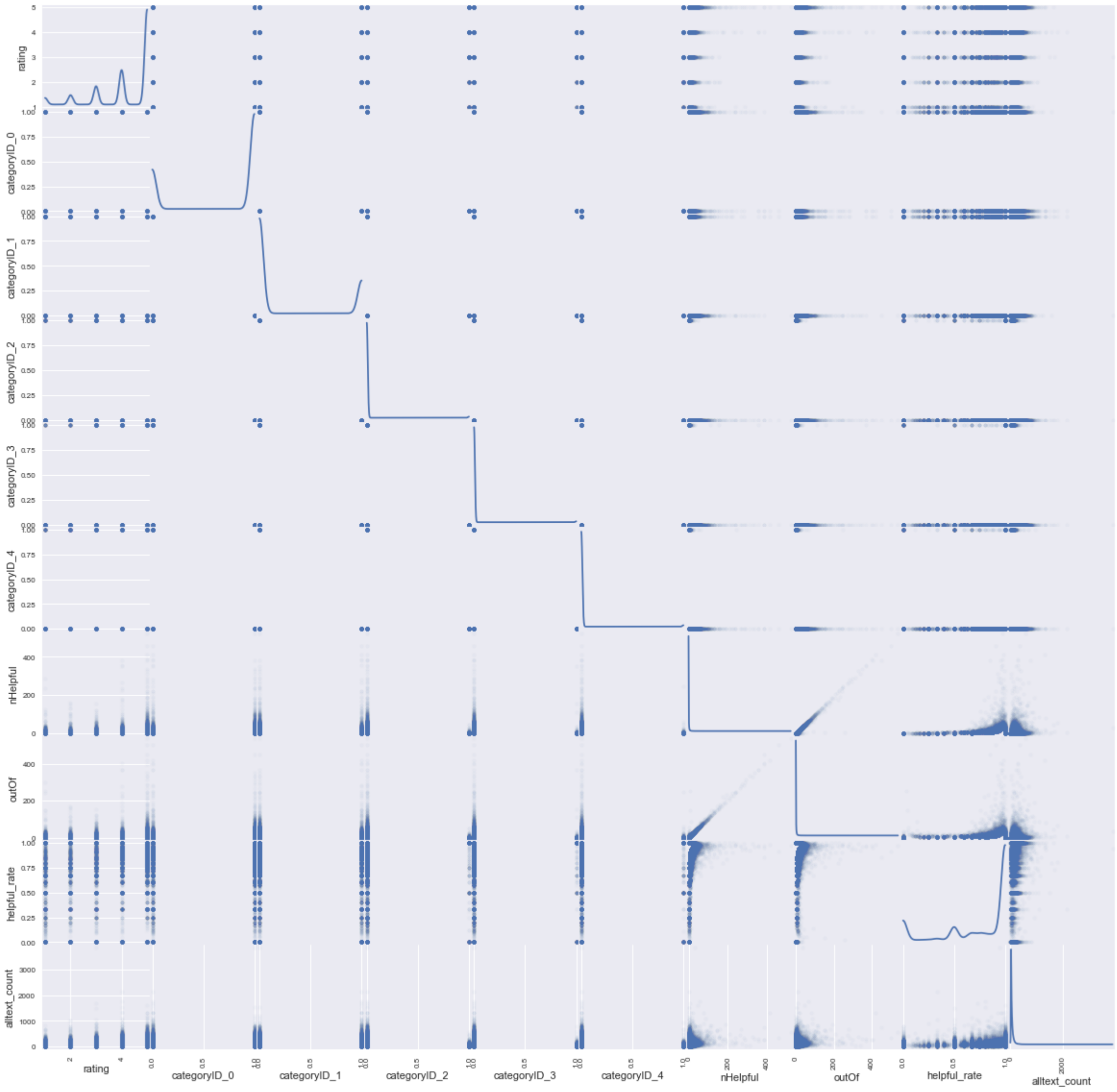
```
Out[117]: <matplotlib.text.Text at 0x21ca7109c50>
```



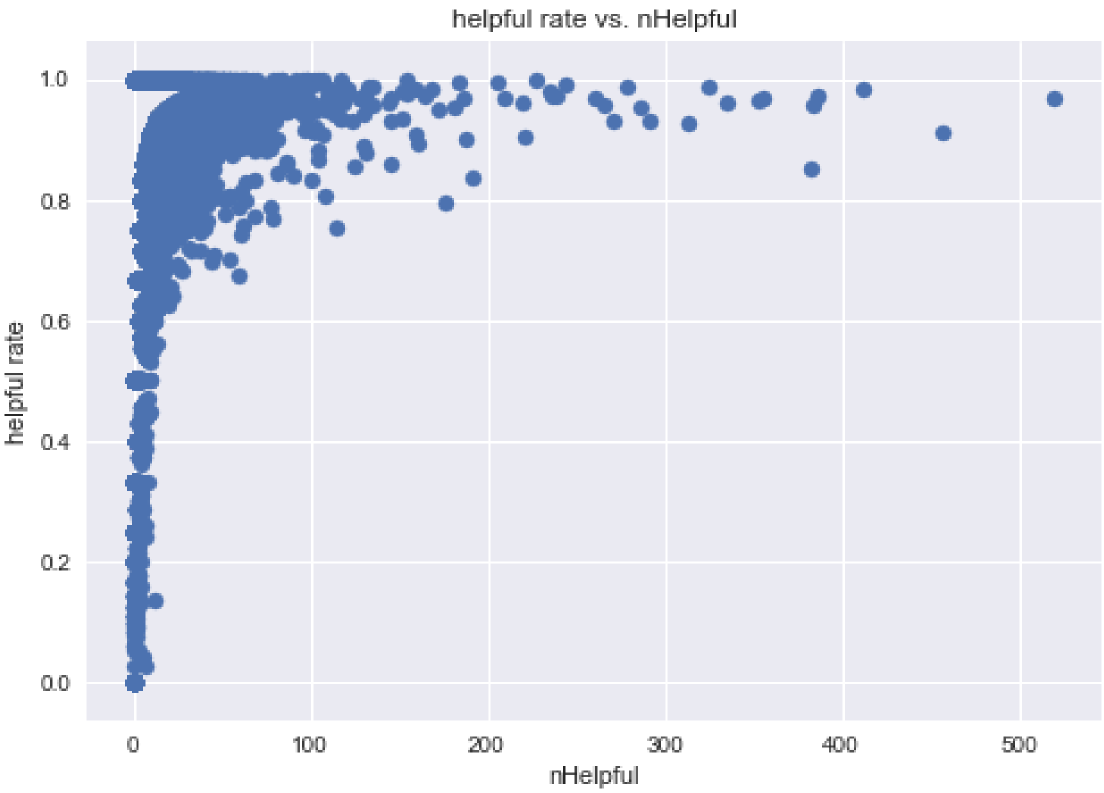
```
In [118]: mat = train.corr() # to get a heatmap of the correlation matrix
          a = sns.heatmap(mat, vmax=1, square = True)
          a.set_title('Correlation heatmap for selected feature.')

Out[118]: <matplotlib.text.Text at 0x21ca7793eb8>
```



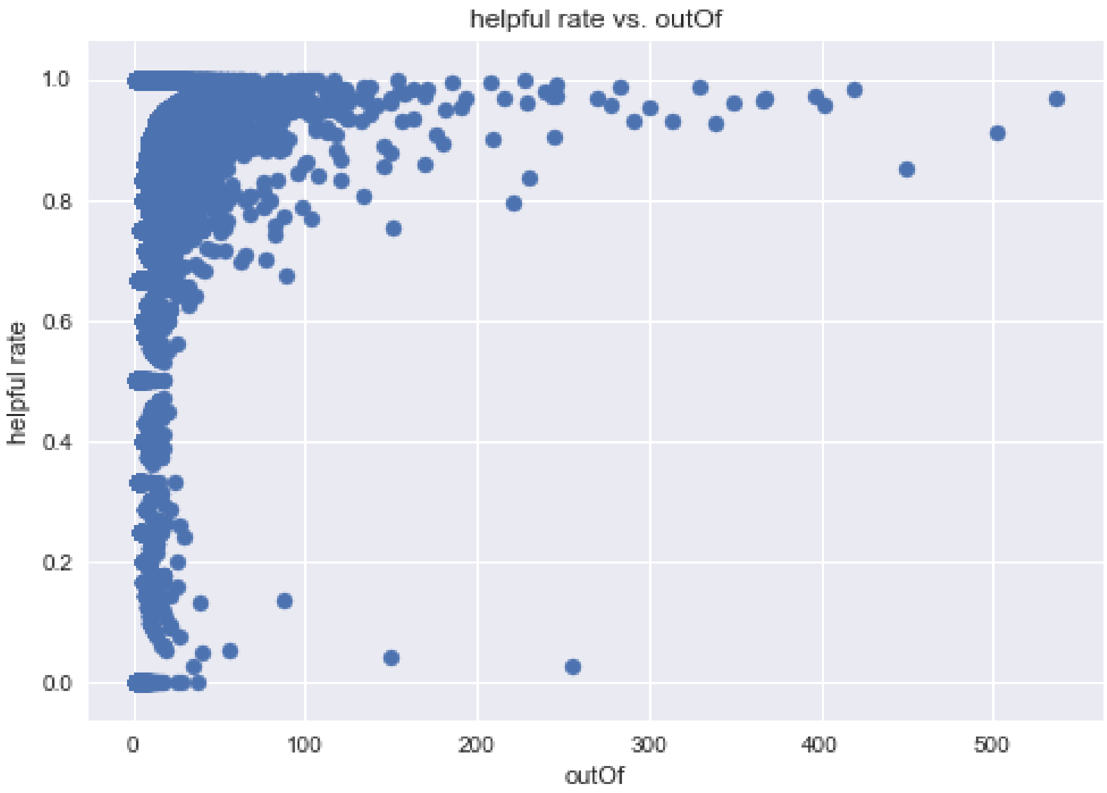
```
In [122]: from pandas.tools.plotting import scatter_matrix
          scatter_matrix(train, alpha=0.03, figsize=(20, 20), diagonal='kde');
```



```
In [127]: plt.scatter(train['nHelpful'], train['helpful_rate']);
          plt.title('helpful rate vs. nHelpful');
          plt.xlabel('nHelpful');
          plt.ylabel('helpful rate');
```



```
In [128]: plt.scatter(train['outOf'], train['helpful_rate']);
          plt.title('helpful rate vs. outOf');
          plt.xlabel('outOf');
          plt.ylabel('helpful rate');
```



2.6 Modeling

```
In [130]: from sklearn.grid_search import GridSearchCV
          from sklearn import ensemble
          from sklearn.cross_validation import cross_val_score, cross_val_predict,
          from sklearn.metrics import mean_absolute_error

In [163]: from sklearn.model_selection import train_test_split

          def data_to_model(dataframe, test_train, features, class_attribute, rando
              """The function prepares the train & test dataframes for modeling."""
              if test_train == 'train':
                  X_train = pd.DataFrame(dataframe, columns=features)
                  y_train = pd.DataFrame(dataframe[class_attribute])
                  X_train1, X_valid, y_train1, y_valid = train_test_split(X_train,
                  return X_train, y_train, X_train1, y_train1, X_valid, y_valid
              elif test_train == 'test':
                  X_test = pd.DataFrame(dataframe, columns=features)
                  return X_test
              else:
                  pass
```

```
In [346]: import warnings
          warnings.filterwarnings('ignore')

          mae = []
          mae_rounding = []
          columns = ['rating', 'outOf', 'categoryID_0', 'categoryID_1', 'categoryID
          iteration = 0
          for i in range(10):
              print('\n ****************** For round', iteration, 'validation set.
              #For outOf ==0, always remove 0 therefore
              X_train, y_train, X_train1, y_train1, X_valid, y_valid = data_to_mode

              # For outOf == 1 binary classifier: Gradient Boosting Classifier
              one_X_train = X_train1[X_train1['outOf'] == 1 ]
              one_y_train = np.array(y_train1['helpful_rate'][X_train1['outOf'] ==
              one_kf = StratifiedKFold(one_y_train, n_folds=10, shuffle=True, rando
              gridparams = dict(learning_rate=[0.01, 0.1],loss=['deviance','exponen
              params = {'n_estimators': 100, 'max_depth': 4}
              gbclf = GridSearchCV(ensemble.GradientBoostingClassifier(**params), g
              gbclf = GridSearchCV(ensemble.GradientBoostingClassifier(**params), g
              gbclf.fit(one_X_train, one_y_train)
              print("Best model:")
              print(gbclf.best_estimator_)
              print("")

              # Rest of data regressor: Gradient Boosting Regressor
              rest_X_train = X_train1[(X_train1['outOf'] != 1) & (X_train1['outOf']
              rest_y_train = np.array(y_train1['helpful_rate'][(X_train1['outOf'] !
              rest_kf = StratifiedKFold(rest_y_train, n_folds=10, shuffle=True, ran
              gridparams = dict(learning_rate=[0.01, 0.1], loss=['ls', 'lad'])
              params = {'n_estimators': 100, 'max_depth': 4}
              gbreg = GridSearchCV(ensemble.GradientBoostingRegressor(**params), gr
              gbreg = GridSearchCV(ensemble.GradientBoostingRegressor(**params), gr
              gbreg.fit(rest_X_train, rest_y_train)
              print("Best model:")
              print(gbreg.best_estimator_)
              print("")

              # Predicting on the validation set:
              y_pred = {}
              X_valid1 = X_valid.reset_index(drop = True)
              for j in range(len(X_valid1)):
                  if X_valid1['outOf'][j] == 0:
                      y_pred[j] = 0
                  elif X_valid1['outOf'][j] == 1:
                      y_pred[j] = (gbclf.predict(np.array(X_valid1.iloc[j]))[0])*(X
                  else:
                      y_pred[j] = (gbreg.predict(np.array(X_valid1.iloc[j]))[0])*(X
              print("Without rounding, mean absolute error: %0.3f" % mean_absolute_
              mae.append(mean_absolute_error(list(y_valid['nHelpful']), list(y_pred
              print("With rounding, mean absolute error: %0.3f" % mean_absolute_err
              mae_rounding.append(mean_absolute_error(list(y_valid['nHelpful']), np
              iteration += 1

          print('\n Using the following features: ', columns)
          print('Without rounding, "mean" mae: %0.3f' % mean(mae))
          print('With rounding, "mean" mae: %0.3f' % mean(mae_rounding))
```

```
 ****************** For round 0 validation set. ******************
Best model:
GradientBoostingClassifier(criterion='friedman_mse', init=None,
              learning_rate=0.01, loss='deviance', max_depth=4,
              max_features=None, max_leaf_nodes=None,
              min_impurity_split=1e-07, min_samples_leaf=1,
              min_samples_split=2, min_weight_fraction_leaf=0.0,
              n_estimators=100, presort='auto', random_state=None,
              subsample=1.0, verbose=0, warm_start=False)

Best model:
GradientBoostingRegressor(alpha=0.9, criterion='friedman_mse', init=None,
             learning_rate=0.1, loss='lad', max_depth=4, max_features=None,
             max_leaf_nodes=None, min_impurity_split=1e-07,
             min_samples_leaf=1, min_samples_split=2,
             min_weight_fraction_leaf=0.0, n_estimators=100,
             presort='auto', random_state=None, subsample=1.0, verbose=0,
             warm_start=False)

Without rounding, mean absolute error: 0.163
With rounding, mean absolute error: 0.162

 ****************** For round 1 validation set. ******************
Best model:
GradientBoostingClassifier(criterion='friedman_mse', init=None,
              learning_rate=0.1, loss='deviance', max_depth=4,
              max_features=None, max_leaf_nodes=None,
              min_impurity_split=1e-07, min_samples_leaf=1,
              min_samples_split=2, min_weight_fraction_leaf=0.0,
              n_estimators=100, presort='auto', random_state=None,
              subsample=1.0, verbose=0, warm_start=False)

Best model:
GradientBoostingRegressor(alpha=0.9, criterion='friedman_mse', init=None,
             learning_rate=0.1, loss='lad', max_depth=4, max_features=None,
             max_leaf_nodes=None, min_impurity_split=1e-07,
             min_samples_leaf=1, min_samples_split=2,
             min_weight_fraction_leaf=0.0, n_estimators=100,
             presort='auto', random_state=None, subsample=1.0, verbose=0,
             warm_start=False)

Without rounding, mean absolute error: 0.170
With rounding, mean absolute error: 0.169

 ****************** For round 2 validation set. ******************
Best model:
GradientBoostingClassifier(criterion='friedman_mse', init=None,
              learning_rate=0.1, loss='deviance', max_depth=4,
              max_features=None, max_leaf_nodes=None,
              min_impurity_split=1e-07, min_samples_leaf=1,
              min_samples_split=2, min_weight_fraction_leaf=0.0,
              n_estimators=100, presort='auto', random_state=None,
              subsample=1.0, verbose=0, warm_start=False)

Best model:
GradientBoostingRegressor(alpha=0.9, criterion='friedman_mse', init=None,
             learning_rate=0.1, loss='lad', max_depth=4, max_features=None,
             max_leaf_nodes=None, min_impurity_split=1e-07,
             min_samples_leaf=1, min_samples_split=2,
             min_weight_fraction_leaf=0.0, n_estimators=100,
             presort='auto', random_state=None, subsample=1.0, verbose=0,
             warm_start=False)

Without rounding, mean absolute error: 0.169
With rounding, mean absolute error: 0.168

 ****************** For round 3 validation set. ******************
Best model:
GradientBoostingClassifier(criterion='friedman_mse', init=None,
              learning_rate=0.1, loss='deviance', max_depth=4,
              max_features=None, max_leaf_nodes=None,
              min_impurity_split=1e-07, min_samples_leaf=1,
              min_samples_split=2, min_weight_fraction_leaf=0.0,
              n_estimators=100, presort='auto', random_state=None,
              subsample=1.0, verbose=0, warm_start=False)

Best model:
GradientBoostingRegressor(alpha=0.9, criterion='friedman_mse', init=None,
             learning_rate=0.1, loss='lad', max_depth=4, max_features=None,
             max_leaf_nodes=None, min_impurity_split=1e-07,
             min_samples_leaf=1, min_samples_split=2,
             min_weight_fraction_leaf=0.0, n_estimators=100,
             presort='auto', random_state=None, subsample=1.0, verbose=0,
             warm_start=False)
```

```
Without rounding, mean absolute error: 0.162
With rounding, mean absolute error: 0.160

 ****************** For round 4 validation set. ******************
Best model:
GradientBoostingClassifier(criterion='friedman_mse', init=None,
              learning_rate=0.1, loss='deviance', max_depth=4,
              max_features=None, max_leaf_nodes=None,
              min_impurity_split=1e-07, min_samples_leaf=1,
              min_samples_split=2, min_weight_fraction_leaf=0.0,
              n_estimators=100, presort='auto', random_state=None,
              subsample=1.0, verbose=0, warm_start=False)

Best model:
GradientBoostingRegressor(alpha=0.9, criterion='friedman_mse', init=None,
             learning_rate=0.1, loss='lad', max_depth=4, max_features=None,
             max_leaf_nodes=None, min_impurity_split=1e-07,
             min_samples_leaf=1, min_samples_split=2,
             min_weight_fraction_leaf=0.0, n_estimators=100,
             presort='auto', random_state=None, subsample=1.0, verbose=0,
             warm_start=False)

Without rounding, mean absolute error: 0.174
With rounding, mean absolute error: 0.173

 ****************** For round 5 validation set. ******************
Best model:
GradientBoostingClassifier(criterion='friedman_mse', init=None,
              learning_rate=0.01, loss='deviance', max_depth=4,
              max_features=None, max_leaf_nodes=None,
              min_impurity_split=1e-07, min_samples_leaf=1,
              min_samples_split=2, min_weight_fraction_leaf=0.0,
              n_estimators=100, presort='auto', random_state=None,
              subsample=1.0, verbose=0, warm_start=False)

Best model:
GradientBoostingRegressor(alpha=0.9, criterion='friedman_mse', init=None,
             learning_rate=0.1, loss='lad', max_depth=4, max_features=None,
             max_leaf_nodes=None, min_impurity_split=1e-07,
             min_samples_leaf=1, min_samples_split=2,
             min_weight_fraction_leaf=0.0, n_estimators=100,
             presort='auto', random_state=None, subsample=1.0, verbose=0,
             warm_start=False)

Without rounding, mean absolute error: 0.169
With rounding, mean absolute error: 0.168
```

```
 ****************** For round 6 validation set. ******************
Best model:
GradientBoostingClassifier(criterion='friedman_mse', init=None,
              learning_rate=0.01, loss='deviance', max_depth=4,
              max_features=None, max_leaf_nodes=None,
              min_impurity_split=1e-07, min_samples_leaf=1,
              min_samples_split=2, min_weight_fraction_leaf=0.0,
              n_estimators=100, presort='auto', random_state=None,
              subsample=1.0, verbose=0, warm_start=False)

Best model:
GradientBoostingRegressor(alpha=0.9, criterion='friedman_mse', init=None,
             learning_rate=0.1, loss='lad', max_depth=4, max_features=None,
             max_leaf_nodes=None, min_impurity_split=1e-07,
             min_samples_leaf=1, min_samples_split=2,
             min_weight_fraction_leaf=0.0, n_estimators=100,
             presort='auto', random_state=None, subsample=1.0, verbose=0,
             warm_start=False)

Without rounding, mean absolute error: 0.169
With rounding, mean absolute error: 0.169

 ****************** For round 7 validation set. ******************
Best model:
GradientBoostingClassifier(criterion='friedman_mse', init=None,
              learning_rate=0.1, loss='deviance', max_depth=4,
              max_features=None, max_leaf_nodes=None,
              min_impurity_split=1e-07, min_samples_leaf=1,
              min_samples_split=2, min_weight_fraction_leaf=0.0,
              n_estimators=100, presort='auto', random_state=None,
              subsample=1.0, verbose=0, warm_start=False)

Best model:
GradientBoostingRegressor(alpha=0.9, criterion='friedman_mse', init=None,
             learning_rate=0.1, loss='lad', max_depth=4, max_features=None,
             max_leaf_nodes=None, min_impurity_split=1e-07,
             min_samples_leaf=1, min_samples_split=2,
             min_weight_fraction_leaf=0.0, n_estimators=100,
             presort='auto', random_state=None, subsample=1.0, verbose=0,
             warm_start=False)

Without rounding, mean absolute error: 0.166
With rounding, mean absolute error: 0.165

 ****************** For round 8 validation set. ******************
Best model:
GradientBoostingClassifier(criterion='friedman_mse', init=None,
              learning_rate=0.01, loss='deviance', max_depth=4,
              max_features=None, max_leaf_nodes=None,
              min_impurity_split=1e-07, min_samples_leaf=1,
              min_samples_split=2, min_weight_fraction_leaf=0.0,
              n_estimators=100, presort='auto', random_state=None,
              subsample=1.0, verbose=0, warm_start=False)

Best model:
GradientBoostingRegressor(alpha=0.9, criterion='friedman_mse', init=None,
             learning_rate=0.1, loss='lad', max_depth=4, max_features=None,
             max_leaf_nodes=None, min_impurity_split=1e-07,
             min_samples_leaf=1, min_samples_split=2,
             min_weight_fraction_leaf=0.0, n_estimators=100,
             presort='auto', random_state=None, subsample=1.0, verbose=0,
             warm_start=False)

Without rounding, mean absolute error: 0.174
With rounding, mean absolute error: 0.173

 ****************** For round 9 validation set. ******************
Best model:
GradientBoostingClassifier(criterion='friedman_mse', init=None,
              learning_rate=0.1, loss='deviance', max_depth=4,
              max_features=None, max_leaf_nodes=None,
              min_impurity_split=1e-07, min_samples_leaf=1,
              min_samples_split=2, min_weight_fraction_leaf=0.0,
              n_estimators=100, presort='auto', random_state=None,
              subsample=1.0, verbose=0, warm_start=False)

Best model:
GradientBoostingRegressor(alpha=0.9, criterion='friedman_mse', init=None,
             learning_rate=0.1, loss='lad', max_depth=4, max_features=None,
             max_leaf_nodes=None, min_impurity_split=1e-07,
             min_samples_leaf=1, min_samples_split=2,
             min_weight_fraction_leaf=0.0, n_estimators=100,
             presort='auto', random_state=None, subsample=1.0, verbose=0,
             warm_start=False)

Without rounding, mean absolute error: 0.175
With rounding, mean absolute error: 0.174

 Using the following features:  ['rating', 'outOf', 'categoryID_0', 'categoryID_1',
Without rounding, "mean" mae: 0.169
With rounding, "mean" mae: 0.168
```

Predict on test data set: - Method: if X_train1['outOf'] == 0 then y_pred == 0, elif X_train1['outOf'] == 1 then perform GradientBoostingClassifier, else perform GradientBoostingRegresor - Using the following features: ['rating', 'outOf', 'categoryID_0', 'categoryID_1', 'categoryID_2’, ‘categoryID_3’, ‘categoryID_4’] - Without rounding, “mean” mae: 0.169, - With rounding, “mean” mae: 0.168

```
In [347]: ### Predict on test data set: Without rounding, "mean" mae: 0.169, With r
          warnings.filterwarnings('ignore')

          one_X_train = X_train[X_train['outOf'] == 1 ]
          one_y_train = np.array(y_train['helpful_rate'][X_train['outOf'] == 1])
          gbclf = ensemble.GradientBoostingClassifier(criterion='friedman_mse', ini
                        learning_rate=0.1, loss='deviance', max_depth=4,
                        max_features=None, max_leaf_nodes=None,
                        min_impurity_split=1e-07, min_samples_leaf=1,
                        min_samples_split=2, min_weight_fraction_leaf=0.0,
                        n_estimators=100, presort='auto', random_state=None,
                        subsample=1.0, verbose=0, warm_start=False)
          gbclf.fit(one_X_train, one_y_train)

          rest_X_train = X_train[(X_train['outOf'] != 1) & (X_train['outOf'] != 0)]
          rest_y_train = np.array(y_train['helpful_rate'][(X_train['outOf'] != 1) &
          gref = ensemble.GradientBoostingRegressor(alpha=0.9, criterion='friedman_
                       learning_rate=0.1, loss='lad', max_depth=4, max_features=Nor
                       max_leaf_nodes=None, min_impurity_split=1e-07,
                       min_samples_leaf=1, min_samples_split=2,
                       min_weight_fraction_leaf=0.0, n_estimators=100,
                       presort='auto', random_state=None, subsample=1.0, verbose=0,
                       warm_start=False)
          gbreg.fit(rest_X_train, rest_y_train)

          X_test = pd.DataFrame(test, columns=columns)
          y_pred = {}
          for j in range(len(X_test)):
              if X_test['outOf'][j] == 0:
                  y_pred[j] = 0
              elif X_test['outOf'][j] == 1:
                  y_pred[j] = (gbclf.predict(np.array(X_test.iloc[j]))[0])*(X_test
              else:
                  y_pred[j] = (gbreg.predict(np.array(X_test.iloc[j]))[0])*(X_test
```

```
In [353]: def predictions_exported(test, y_pred, rounding_on, output_file):
              predictions = []
              test_user_id = list(test['reviewerID'])
              test_item_id = list(test['itemID'])
              outOf = list(test['outOf'])

              if rounding_on == True:
                  predictions = np.round(list(y_pred.values()), 0)
              else:
                  predictions = list(y_pred.values())
```

```
            output = open(output_file, 'w')
            output.write('userID-itemID-outOf,prediction\n')
            for i in range(len(predictions)):
                user = test_user_id[i]
                item = test_item_id[i]
                outof = outOf[i]
                prediction = predictions[i]
                output.write(user + '-' + item + '-' + str(outof) + ',' + str(pre

In [355]: predictions_exported(test, y_pred, True, 'ensemble_gb_0.168_rounding1_6.1
          predictions_exported(test, y_pred, False, 'ensemble_gb_0.169_norounding1_

In [ ]:
```

Final Model 2

June 12, 2017

1 Final: Amazon Product Review Kaggle Competition

2 Model 2

2.1 DSE 220: Machine Learning

2.2 Due Date: 11 June 2017

2.3 Orysya Stus

```
In [ ]: import pandas as pd
        import numpy as np
        from collections import defaultdict
        import gzip

        def readGz(f):
          for l in gzip.open(f):
            yield eval(l)

        def parse(path):
          g = gzip.open(path, 'rb')
          for l in g:
            yield eval(l)

        def getDF(path):
          i = 0
          df = {}
          for d in parse(path):
            df[i] = d
            i += 1
          return pd.DataFrame.from_dict(df, orient='index')

        train_df = getDF('train.json.gz')
        test_df = getDF('test_Helpful.json.gz')
```

```
In [2]: print(train_df.shape)
```

```
(200000, 12)
```

```
In [3]: train_df.isnull().sum()

Out[3]: categoryID             0
        categories             0
        itemID                 0
        reviewerID             0
        rating                 0
        reviewText             0
        reviewHash             0
        reviewTime             0
        summary                0
        unixReviewTime         0
        helpful                0
        price             125851
        dtype: int64
```

```
In [4]: print('Column price might need to be dropped since', train_df['price'].isnu

Column price might need to be dropped since 62.9255 % of the data is null.
```

```
In [5]: print('Delete column reviewHash since', train_df['reviewHash'].nunique(), '
        del train_df['reviewHash']

Delete column reviewHash since 200000 unique values, out of 200000 exists.
```

2.3.1 Data Pre-Processing & Feature Engineering

Data Cleaning Done - deleted 'reviewHash' because it is completely unique - create helpful_rate (if 0/0 then fillna with 0), delete 'helpful' - convert 'reviewTime' to datetime - delete 'unixReviewTime' since 'reviewTime' is present - created review_keyText dictionary -> removed punctuation, stopwords, list of remaining words - created review_allText dictionary -> list of all words - created review_keyText_count dictionary -> length of each wordlist in review_keyText - created review_allText_count dictionary -> length of each wordlist in review_allText - created a vocabulary list comprised of the set of review_keyText - created a dataframe called itemID_RPD -> calculates the reviews per day for each itemID - created a dataframe called reviewerID_RPD -> calculates the reviews per day for each reviewerID

To Do - determine which users with best nHelpful count use which words –> count the number of words in each reviewText - see distribution of helpful_rate via histogram - match itemID either by itemID if not present then via categories, price ie. NearestNeighbor - determine which words are used through distribution of helpful_rate - build a dataframe for item which contains the categoryID, categories (binary w/dummy variables), price

```
In [6]: a = pd.DataFrame.from_dict(dict(train_df['helpful'])).T
        train_df1 = pd.concat([train_df, a], axis=1)
        train_df1['helpful_rate'] = train_df1['nHelpful']/train_df1['outOf']
        train_df1['helpful_rate'].fillna(0, inplace=True)
        del train_df1['helpful']
        train_df1['reviewTime'] = pd.to_datetime(train_df1['reviewTime'])
        del train_df1['unixReviewTime']
```

```
In [7]: from nltk.corpus import stopwords
        import string

        def reviewText_listed(row):
            all_words = row.split()
            all_words = [w.lower() for w in all_words]
            subset_list = [''.join(c for c in s if c not in string.punctuation) for
            subset_list = [w for w in subset_list if w != '']
            subset_list = [word for word in subset_list if word not in stopwords.wo
            return all_words, len(all_words), subset_list, len(subset_list)

        review_allText = {}
        review_allText_count = {}
        review_keyText = {}
        review_keyText_count = {}
        vocabulary = []
        count = 0
        reviewText = list(train_df1['reviewText'])
        for text in reviewText:
            all_, all_count, subset_, subset_count = reviewText_listed(text)
            review_allText[count] = all_
            review_allText_count[count] = all_count
            review_keyText[count] = subset_
            review_keyText_count[count] = subset_count
            vocabulary.append(subset_)
            count += 1
```

```
In [8]: from itertools import chain
        vocabulary = set(list(chain.from_iterable(vocabulary)))
```

```
In [9]: print('There are', train_df1['reviewerID'].nunique(), 'unique reviewerIDS o
        print('There are', train_df1['itemID'].nunique(), 'unique itemIDs out of',
```

```
There are 39249 unique reviewerIDS out of 200000 training records.
There are 19913 unique itemIDs out of 200000 training records.
```

```
In [10]: def RPD(row):
             if (row['max'] - row['min']).days == 0:
                 return 0
             else:
                 return row['count']/ (row['max'] - row['min']).days
```

```
In [11]: rt_count = train_df1.groupby('reviewerID')['reviewTime'].count()
         rt_max = train_df1.groupby('reviewerID')['reviewTime'].max()
         rt_min = train_df1.groupby('reviewerID')['reviewTime'].min()

         reviewerID_RDP = pd.concat([rt_count, rt_max, rt_min], axis=1, join="inner
         reviewerID_RDP.columns.values[0] = 'count'
         reviewerID_RDP.columns.values[1] = 'max'
         reviewerID_RDP.columns.values[2] = 'min'

         reviewerID_RDP['reviewerID_RPD'] = reviewerID_RDP.apply(RPD, axis=1)
         reviewerID_RDP.head()

Out[11]:             count        max        min  reviewerID_RPD
         reviewerID
         U000005418     13 2014-01-25 2011-12-29        0.017150
         U000025708      7 2013-12-03 2013-05-30        0.037433
         U000095100     20 2014-06-07 2012-02-14        0.023697
         U000129529      3 2014-01-01 2013-12-31        3.000000
         U000130531      7 2013-08-15 2013-03-29        0.050360

In [12]: rt_count = train_df1.groupby('itemID')['reviewTime'].count()
         rt_max = train_df1.groupby('itemID')['reviewTime'].max()
         rt_min = train_df1.groupby('itemID')['reviewTime'].min()

         itemID_RPD = pd.concat([rt_count, rt_max, rt_min], axis=1, join="inner")
         itemID_RPD.columns.values[0] = 'count'
         itemID_RPD.columns.values[1] = 'max'
         itemID_RPD.columns.values[2] = 'min'

         itemID_RPD['itemID_RPD'] = itemID_RPD.apply(RPD, axis=1)
         itemID_RPD.head()

Out[12]:             count        max        min  itemID_RPD
         itemID
         I000059267      4 2014-02-26 2010-12-21    0.003439
         I000139473      9 2014-04-10 2013-02-20    0.021739
         I000159068      7 2014-02-09 2013-01-03    0.017413
         I000235837     24 2014-07-02 2010-01-26    0.014833
         I000384418     13 2014-05-24 2010-06-26    0.009104

In [13]: train_df1.head(3)

Out[13]:    categoryID                                         categories      item
         0           0  [[Clothing, Shoes & Jewelry, Women], [Clothing...  I6553553
         1           0  [[Clothing, Shoes & Jewelry, Women, Clothing, ...  I2410923
         2           0  [[Clothing, Shoes & Jewelry, Wedding Party Gif...  I4082608

            reviewerID  rating                                         reviewText
         0  U745881038     3.0  These are cute, but they are a little small.  ...
         1  U023577405     4.0  I love the look of this bra, it is what I want...
         2  U441384838     3.0  it's better on a man's hand.I didn't find it v...

           reviewTime                        summary  price  nHelpful  outOf  \
         0 2014-05-20                           Cute    NaN         0      0
         1 2013-02-07  Beautiful but size runs small    NaN         0      0
```

```
2 2014-05-13              Good price but...  19.99        2      2

   helpful_rate
0           0.0
1           0.0
2           1.0
```

```
In [14]: train_df1.shape
```

```
Out[14]: (200000, 12)
```

```
In [62]: review_keyword_length = pd.DataFrame.from_dict(review_keyText_count, orien
         review_allword_length = pd.DataFrame.from_dict(review_allText_count, orien
```

```
In [32]: categories = list(train_df1['categories'])
         g = list(chain.from_iterable(categories))
         print('There are', len(set(list(chain.from_iterable(g)))), 'unique categor
```

```
There are 1042 unique categories values
```

```
In [34]: print('There are', train_df1['categoryID'].nunique(), 'unique categoriesID
```

```
Out[34]: 5
```

```
In [295]: dummies = pd.get_dummies(train_df1['categoryID']).rename(columns=lambda x
          # master = pd.concat([train_df1, dummies], axis=1)
          master = pd.concat([train_df1, dummies, review_keyword_length, review_all
          master.columns.values[17] = 'review_content_len'
          master.columns.values[18] = 'review_all_len'
          master['review_contentratio'] = master['review_content_len']/master['revi
          del master['categoryID']
          master.head(3)
```

```
Out[295]:                                           categories      itemID   reviewe
          0  [[Clothing, Shoes & Jewelry, Women], [Clothing...  I655355328  U745881
          1  [[Clothing, Shoes & Jewelry, Women, Clothing, ...  I241092314  U023577
          2  [[Clothing, Shoes & Jewelry, Wedding Party Gif...  I408260822  U441384

             rating                                        reviewText reviewTime
          0     3.0  These are cute, but they are a little small.  ... 2014-05-20
          1     4.0  I love the look of this bra, it is what I want... 2013-02-07
          2     3.0  it's better on a man's hand.I didn't find it v... 2014-05-13

                                 summary  price  nHelpful  outOf  helpful_rate  \
          0                         Cute    NaN         0      0           0.0
          1  Beautiful but size runs small    NaN         0      0           0.0
          2              Good price but...  19.99         2      2           1.0
```

```
   categoryID_0  categoryID_1  categoryID_2  categoryID_3  categoryID_4
0             1             0             0             0             0
1             1             0             0             0             0
2             1             0             0             0             0

   review_content_len  review_all_len  review_contentratio
0                  10              24             0.416667
1                  25              57             0.438596
2                  15              28             0.535714
```

```
In [281]: # create a model just using rating, outOf, categoryID_0-5; predict on nHe
          # obviously is outOf == 0 then nHelpful == 0, do not need to model this
```

```
In [282]: model = master[master['outOf'] != 0]
          print('With all data', master.shape, ', when outOf != 0', model.shape)
```

```
With all data (200000, 19) , when outOf != 0 (63016, 19)
```

```
In [322]: columns = ['rating', 'outOf', 'categoryID_0', 'categoryID_1', 'categoryII
          X_train = pd.DataFrame(model, columns=columns)
          y_train = pd.DataFrame(model.ix[:, 'nHelpful'])
```

```
In [323]: from sklearn.model_selection import train_test_split
          X_train1, X_valid, y_train1, y_valid = train_test_split(X_train, y_train,
```

```
In [299]: ### Test data
          a = pd.DataFrame.from_dict(dict(test_df['helpful'])).T
          test_df1 = pd.concat([test_df, a], axis=1)

          review1_allText = {}
          review1_allText_count = {}
          review1_keyText = {}
          review1_keyText_count = {}
          vocabulary1 = []
          count = 0
          reviewText = list(test_df1['reviewText'])
          for text in reviewText:
              all_, all_count, subset_, subset_count = reviewText_listed(text)
              review1_allText[count] = all_
              review1_allText_count[count] = all_count
              review1_keyText[count] = subset_
              review1_keyText_count[count] = subset_count
              vocabulary1.append(subset_)
              count += 1
```

```
In [300]: review1_keyword_length = pd.DataFrame.from_dict(review1_keyText_count, or
          review1_allword_length = pd.DataFrame.from_dict(review1_allText_count, or
In [324]: dummies = pd.get_dummies(test_df1['categoryID']).rename(columns=lambda x:
          master = pd.concat([test_df1, dummies, review1_keyword_length, review1_al
          master.columns.values[18] = 'review_content_len'
          master.columns.values[19] = 'review_all_len'
          master['review_contentratio'] = master['review_content_len']/master['revi
          del master['categoryID']
          X_test = pd.DataFrame(master, columns=columns)
          X_test.head()
```

```
Out[324]:    rating  outOf  categoryID_0  categoryID_1  categoryID_2  categoryID_3
          0     3.0      2             1             0             0             0
          1     4.0      0             1             0             0             0
          2     5.0      1             1             0             0             0
          3     5.0      1             1             0             0             0
          4     4.0      0             1             0             0             0

             categoryID_4  review_all_len
          0             0              27
          1             0              27
          2             0              23
          3             0             135
          4             0              38
```

```
In [311]: model1 = X_test[X_test['outOf'] != 0]
          print('With all data', X_test.shape, ', when outOf != 0', model1.shape)
```

```
With all data (14000, 8) , when outOf != 0 (4400, 8)
```

Really have a training size of 63,016 to predict 4,400 values.

3 Gradient Boosting Regression

- without rounding 0.16543
- with rounding 0.16271

```
In [312]: from sklearn.grid_search import GridSearchCV
          from sklearn import ensemble
          from sklearn.metrics import mean_absolute_error
```

```
In [ ]: # kf = StratifiedKFold(y, n_folds=10, random_state=None, shuffle=True)
        gridparams = dict(learning_rate=[0.01, 0.1], loss=['ls', 'lad', 'huber', 'q
        # gridparams = dict(learning_rate=[0.01, 0.1, 1, 10], loss=['ls', 'lad', 'h
        params = {'n_estimators': 100, 'max_depth': 4}
        gbclf = GridSearchCV(ensemble.GradientBoostingRegressor(**params), gridpara
        # gbclf = GridSearchCV(ensemble.GradientBoostingRegressor(n_estimators= 20
        gbclf.fit(X_train1, y_train1)
        print("Best model:")
        print(gbclf.best_estimator_)
        print("")

        y_pred = gbclf.predict(X_valid)
        print("Mean absolute error: %0.3f" % mean_absolute_error(np.array(y_valid['
```

```
In [314]: gbreg1 = ensemble.GradientBoostingRegressor(alpha=0.9, criterion='friedma
                       learning_rate=0.1, loss='lad', max_depth=4, max_features=Non
                       max_leaf_nodes=None, min_impurity_split=1e-07,
                       min_samples_leaf=1, min_samples_split=2,
                       min_weight_fraction_leaf=0.0, n_estimators=100,
                       presort='auto', random_state=None, subsample=1.0, verbose=0,
                       warm_start=False)
          gbreg1.fit(X_train, y_train)
```

```
C:\Users\Orysya\Anaconda\envs\py36\lib\site-packages\sklearn\utils\validation.py:52
  y = column_or_1d(y, warn=True)
```

```
Out[314]: GradientBoostingRegressor(alpha=0.9, criterion='friedman_mse', init=None,
                       learning_rate=0.1, loss='lad', max_depth=4, max_features=Nor
                       max_leaf_nodes=None, min_impurity_split=1e-07,
                       min_samples_leaf=1, min_samples_split=2,
                       min_weight_fraction_leaf=0.0, n_estimators=100,
                       presort='auto', random_state=None, subsample=1.0, verbose=0,
                       warm_start=False)
```

```
In [319]: gbreg1_predictions = []
          for i in range(len(X_test)):
              if X_test['outOf'][i] == 0:
                  gbreg1_predictions.append(0)
              else:
                  gbreg1_predictions.append(round(gbreg1.predict(X_test.ix[i])[0]))
```

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```
In [320]: # with rounding
          predictions = open("predictions_gbreg_rounding_Helpful.csv", 'w')
          predictions.write('userID-itemID-outOf,prediction\n')
          for i in range(len(gbreg1_predictions)):
              user = test_user_id[i]
              item = test_item_id[i]
              outof = outOf[i]
              prediction = gbreg1_predictions[i]
              predictions.write(user + '-' + item + '-' + str(outof) + ',' + str(pr
```

```
In [ ]:
```