Untitled

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1 CLASSIFIERS WITH NEW FEATURES

In [1]: import pandas as pd

```
import numpy as np
        import matplotlib.pyplot as plt
        import warnings
        warnings.simplefilter('ignore')
In [2]: df = pd.read_csv('new_train.csv')
In [3]: target = ['booking_bool', 'click_bool']
In [4]: data = ['year', 'month', 'prop_score', 'prop_location_score1', 'prop_location_score2', 'dif
                        'usd_diff', 'star_diff', 'srch_query_affinity_score', 'orig_destination_
                        'prop_review_score', 'position', 'price_rank', 'stars_rank', 'score_rank']
In [7]: from sklearn.cross_validation import cross_val_score
C:\Users\Ryan\Anaconda2\lib\site-packages\sklearn\cross_validation.py:41: DeprecationWarning: Th
  "This module will be removed in 0.20.", DeprecationWarning)
In [5]: df.fillna(value='0', inplace=True)
In [6]: df_sample = df.sample(frac=0.1)
        X = df_sample[data]
        y = df_sample[target]
1.1 K-Neighbors Classifier
In [8]: from sklearn.neighbors import KNeighborsClassifier
        knn = KNeighborsClassifier(n_neighbors=5)
        print cross_val_score(knn, X, y, cv=10, scoring='accuracy').mean()
0.9531838825629324
```

1.2 Random Forest

1.3 Neural network

1.4 Decision Tree

2 ENSEMBLE CLASSIFIERS