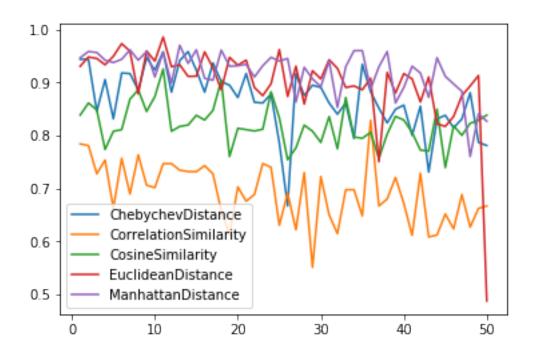
Untitled

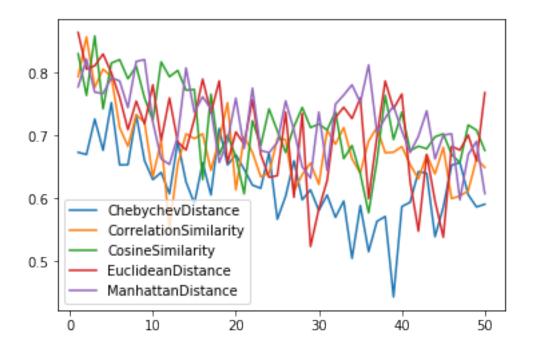
October 22, 2017

```
In [1]: import numpy as np
        import pandas as pd
        import matplotlib.pyplot as plt
       %matplotlib inline
In [2]: iris_log = pd.read_csv("Iris.log", sep="\t")
       sonar_log = pd.read_csv("Sonar.log", sep="\t")
       weighting_log = pd.read_csv("Weighting.log", sep="\t")
In [3]: iris_log.head()
Out[3]:
                   Distance
                               k Performance
       0 EuclideanDistance 1.0
                                     0.930556
       1 EuclideanDistance 2.0
                                     0.948052
       2 EuclideanDistance 3.0
                                     0.945205
       3 EuclideanDistance 4.0
                                     0.933333
       4 EuclideanDistance 5.0
                                     0.949367
In [4]: sonar_log.head()
Out [4]:
                   Distance
                               k Performance
       0 EuclideanDistance 1.0
                                     0.864078
       1 EuclideanDistance 2.0
                                     0.805825
       2 EuclideanDistance 3.0
                                     0.811321
       3 EuclideanDistance 4.0
                                     0.830000
       4 EuclideanDistance 5.0
                                     0.800000
In [5]: weighting_log.head()
Out [5]:
                   Distance
                               k Performance
       0 EuclideanDistance 1.0
                                     0.848980
       1 EuclideanDistance 2.0
                                      0.851852
        2 EuclideanDistance 3.0
                                     0.836066
        3 EuclideanDistance 4.0
                                     0.833992
       4 EuclideanDistance 5.0
                                     0.851852
In [6]: dfs = {'Iris': iris_log,
               'Sonar': sonar_log,
               'Weighting': weighting_log}
```

Iris



Sonar



Weighting

ChebychevDistance CorrelationSimilarity CosineSimilarity EuclideanDistance

ManhattanDistance

Max Perf: 0.916666666667 Max Perf: 0.945833333333

Max Perf: 0.943548387097 Max Perf: 0.921161825726 Max Perf: 0.9604743083 with k = 47.0with k = 50.0

with k = 40.0with k = 42.0with k = 46.0

