Assignment 1: Foundations Statistical Methods for Machine Learning

Troels Thomsen - qvw203 Rasmus Haarslev - nkh877 Allan Martin Nielsen -

February 12, 2015

1 I.2.4

The length of the scaled and translated eigenvectors represent the spread from the sample mean in orthogonal directions.

2 I.3.1

Running the algorithms for various k's, we get the following accuracies:

- k = 1; 0.815789473684%
- k = 3; 0.710526315789%
- k = 5; 0.736842105263%

As such, k = 1 is clearly the best k for this training- and test set.