

## Meeting Minutes April 12, 2015

### 1 Attendees

Nick Hockensmith  
Kevin Park  
Dane Skinner

### 2 Discussion Topic 1

Choosing Research Question to Answer

#### 2.1 Ideas

- Clustering Data
- Classifying Data
- Errors in Training Data

#### 2.2 Difficulties Related to Ideas in 2.1

- Clustering

The training data has 25 cluster centers while the test data has about 30. Fitting the test data could lead to problems as a consequence.

One proposed solution was to take some of the test data and move it to the training data so that the training data had all classes represented.

Another proposed solution was to remove any data points in the test data that belong in a class not represented in the training data.

### 3 Action Plan

Each member will try a clustering algorithm and explore the results. The results will then be compared in the next meeting.

- Kevin - Spectral Clustering
- Nick - K-means, K-medoids, K-means++ Clustering
- Dane - K-means, K-medoids, K-means++ Clustering

### 4 Next Meeting

Thursday, April 16, 2015 at 4pm.