**Big Data Analytics & Management: Project #3**

**Matthew S. Hartstein**

**010567629**

**2/27/20**

A screenshot of a cell phone

Description automatically generated

Successfully loading .csv file into Weka

A screenshot of a cell phone

Description automatically generated

J48 Tree Classifier Results

A screenshot of a cell phone

Description automatically generated

Confusion Matrix Results: NFL Wide Receivers have the highest Criminal Rate (i=135)

A screenshot of a cell phone

Description automatically generated

Simple K Means Clustered Instances (8 total)

A screenshot of a cell phone

Description automatically generated

Simple K Means Results in Weka

A close up of a logo

Description automatically generated

Simple K Means Results from my Python Algorithm:

* My program uses the following libraries: numpy, pandas, matplotlib, and sklearn to construct a K-means Clustering Scatterplot graph.
* I was not able to use the data from my excel file, but I was able to use randomly generated numbers and formed clusters of this data.
* Each cluster is represented by a different color in the Scatterplot graph.
* Black Stars represent the mean for each cluster.