**ZUHA AHMAD** 

DS 670: Capstone: Big Data & Business Analytics

Dr. Jaume

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LAB 9 – Apply Aggregation & Group Operations

The reference that I am trying to outperform is from an IEEE Journal called 'Crime forecasting using data mining techniques'. The goal of my competitor's article was to explore a methodology for reliably predicting the location, time, and/or likelihood of future residential burglary in a year's time. They had several classifiers/algorithms to choose such as SVM, Decision Trees, Neural Networks, Naïve Bayes, and 1NN. We both had wanted to tackle crime forecasting in the United States. However, our focus is different. We are focusing on one algorithm, K means-clustering and decided to build an interactive application in R Shiny from R. The deployment and implementation of visual application for crime forecasting is beneficial and an improvement from our competitors. In the aggregation process, the target would be to show distinction of quality and geographical state of improvement that can be implemented in Portland, Oregon.

COMPETITOR	MY CONTRIBUTION
	United States National Institute of Justice  The research is made up of the following sections:  4 'Abstract',  4 'Work by Competitors',  4 'Contribution',  4 'Data',  4 'Method',  4 'Results',  4 'Discussions',  4 'Conclusion'
Classifiers:  \$\preceq\$ SVM\$  \$\preceq\$ Decision Trees\$  \$\preceq\$ Naïve Bayes	Classifiers <b>4</b> K-Means Clustering