**Accident Severity Prediction Project**

**Data**

The dataset used in this project is offered by the Seattle Department of Transportation (SDOT) Traffic Management Division, Traffic Records Group. The .CSV file is obtained from the Coursera website. The dataset contains data on more than 194000 accidents recorded in Seattle, and each accident has up to 38 attributes, such as weather conditions, collision time and date, whether the driver was under influence of drugs or alcohol, etc. One attribute is accident severity code, 1 for property damage, and 2 for injury. The accident severity is the target of prediction in this project. The most relevant attributes contributing to the accidents will be selected based on their correlation with accident severity. Four different classification algorithms, K Nearest Neighbor (KNN), Decision Tree, Support Vector Machine, and Logistic Regression will be examined, and their performance will be compared based on their resulting F1-scores.