**COURSERA-CAPSTONE-PROBLEM DEFINITION**

The problem being studied for this project is to explore ways that may be able to reduce the number of severe accidents in the Seattle area. By observing historical data relating to accidents, features of accidents can be observed, future accidents can be predicted and by observing predicted future accidents, policies can be implemented to reduce the number of severe accidents.

As further described in the description of the data available for this project, there is meaningful historical data of accidents that have occurred in the Seattle area and that provides a meaningful amount of experience that can be used to perform tasks that identify correlations between accidents and accidents’ respective features. Using machine learning techniques such as linear regression or other approaches, a model can be developed and implemented with a performance measure such as the prediction of accidents. More particularly, the severity of an accident and features such as the collision type, weather conditions, location of accident, road conditions can be analyzed to determine how such features may affect future accidents. Although the data is limited to Seattle, findings from this study may be used to provide general guidelines for other cities as well.