

# Accident Severity Prediction

## **Introduction/ Business Problem**

The Washington State Department of Transportation Crash Data Portal provides crash information for accidents that occurred state-wide. According to the 2019 data, there were 45,524 accidents on all roads. Of those:

- 235 were fatal crashes
- 973 were suspected of serious injury accidents
- 2,798 were suspected of minor injury accidents
- 9,412 were possible injury crashes
- 32,106 were no apparent injury collisions

Our motivation is to use the weather, location and road condition data provided in the dataset, made available by the Seattle Department of Transportation Traffic Management Division, to arrive at a correlation to predict the severity of road accidents. This tool/data can then be made available to the public and the Seattle traffic authorities to possibly prevent/reduce severe or fatal accidents in the future by taking precautionary measures.