

## Introduction

### Problem Statement

Reducing the number of collisions has become one of the important public safety challenges around the world. Millions of humans lives are lost each year due to car crashes. Prediction of the severity and understanding the key factor that contribute to these car accidents becomes vital for many governments across the world. Thus, it enables in creation of optimized traffic systems, safer routes and better transport infrastructure. Hence, the significance of developing a severity prediction model.

## Data Acquisition

### Data sources

The crash data used for the project is of the dataset provided by the Seattle Police Department (SPD), which comprises of information regarding the car collisions from the year 2004 to the present. The dataset comprises of all types of collisions including motor vehicle, bicycle collisions etc. It also captures various information about the weather condition, location of the incident, vehicular details etc. Full attribute details about the dataset can be accessed [here](#).

Using this information, we can see how attributes like weather conditions, location of the incident impact the severity of the accidents.