Coursera Capstone Project- Week 1/ Boaz Ben-Dov

**Accidents Severity Model**

**Problem:**

A lot of effort and funding are invested every year all around the world to decrease car accidents severity outcomes. Considering every state has limited resources for dealing with the problem, it will make great importance to know where to focus our efforts to get the best results. I will try to answer this question by creating a model for classifying accidents severity and determine which factors effects the most.

**Data:**

I'll be using Seattle government collected data of 194,673 collisions between 01/01/2014 to 20/05/2020.

The independents variables can be divided to three categories:

1. External Factors- Weather, light
2. Drivers state- Under influence
3. Collison course- how many vehicles/pedestrians involved, what type of vehicles, where and how the car got hit.
4. Collison Location- Interchange, mid-block, specific location (prone to accidents).

The target variable is the Collison severity= property damage or injury