**Introduction:**

**Car accident is one of the most critical life changing action. It affects not only the driver but also the pedestrians and other cars. beside of that, it costs millions of dollars yearly. Hence, it is important to find a model to predict the severity of accident and the relationship with surrounding condition. So, The Government and other related service organizations can take proper actions to prevent sever accidents and predict the resources which are needed to react adequately.**

**Machine Learning is the best choice to predict required info in real time regarding multi-factorial and sophisticated environment.**

**Data understanding:**

**To resolve this problem, we need a dataset contain information about accidents and the factors which may lead to them such as the Traffic Records Group from Seattle:**

* **Features which may help us :(Location, address type, junction type, inattention of driver, drugs or alcohol usage, weather condition, light condition, whether pedestrian right of way, speed, existing of parked car, where collusion occurred lane segment or crosswalk or intersection)**
* **severity of these accidents: (type of collision; count of persons, pedestrians, vehicle, and bicycles involved; severity code; SDOT code). In my opinions all these info is needed by different organizations to plane to prevent accidents and also to prepare enough resources to manage them.**