**Predicting Car accident severity**

1. **Introduction:**
   1. **Background**

Street traffic wounds are presently assessed to be the eighth driving reason for death over all age bunches internationally, and are anticipated to turn into the seventh driving reason for death by 2030. Investigating a critical scope of elements, including weather conditions, extraordinary occasions, road works, gridlocks among others, an exact forecast of the severity of the accidents can be performed.

These experiences, could permit law authorization bodies to distribute their assets all the more successfully ahead of time of possible accidents, forestalling when and where an extreme accidents can happen just as sparing both, time and cash. What's more, this information on a serious mishap circumstance can be cautioned to drivers so they would drive all the more cautiously or even change their course on the off chance that it is conceivable or to medical clinic which could have set everything prepared for an extreme intercession ahead of time.

* 1. **Problem**

Predicting the car accident t severity based on multiple factors such as weather condition, area, work roads , extraordinary occasions , gridlocks , traffic etc.

* 1. **Interest**

Government ought to be exceptionally intrigued by precise predictions of the severity of a mishap, so as to decrease the hour of appearance and in this manner spare a lot of individuals every year. Others intrigued could be private organizations putting resources into advances meaning to improve street safeness.

1. **Data Section**
   1. **Data source**

Data has been imported from following page of kaggle <https://www.kaggle.com/ahmedlahlou/accidents-in-france-from-2005-to-2016>

* 1. **Feature Selection**

The information comprising of the apparent multitude of recorded accidents in France from 2005 to 2016. The qualities informational index contains data on the time, spot, and sort of crash, weather and lighting conditions furthermore, sort of convergence where it happened. The spots informational index has the street specifics, for example, the inclination, shape and class of the street, the traffic system, surface conditions and foundation. On the client informational index it very well may be discovered the spot involved by the clients of the vehicle, data on the clients associated with the reason of voyaging, severity of the utilization of security gear furthermore, data on the people on foot. The vehicle informational collection contains the ow and kind of vehicle, and the occasion one names the accidents happening in a vacation. All informational collections share the identification number.

* 1. **Description**

The dataset that came about because of the component choice comprised in 839,985 sam-ples, every one depicting a mishap and 29 di erent highlights.

* 1. **Data Cleaning**

The data cleaning is the way toward giving an appropriate organization to the data for its further analysis. The progression was to manage missing values and outliers. Initially the scope, longitude and street number were dropped structure the data 3 edge as in excess of a half of its values were NaN or 0 which is an exception in this case.

With respect to kind of the data, all highlights had an intelligible data type aside from for the date include which was de need with the string type. I utilized the to data capacity of pandas to de ne the date include with the date time type. All things considered, 24 highlights remained.