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 in Kaggle here, which comprises of information regarding the collisions from the year 2016 and collected from multiple data sources. 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, etc. Details on the dataset is given here.

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