

Car Accident Severity Analysis

Introduction

Due to increase in population there is an exponential increase in traffic. The increase in traffic also increased the traffic accidents. Deaths due to traffic accident ranks eight in cause of deaths around the globe. Road accidents can be caused by many factors such as weather conditions, events, road repairs, traffic jams etc. All these factors can be used to perform analysis on the severity of the accidents. The prediction can be used by the Government to prepare ways to prevent accidents or nullify the effects or build medical support camps in a closer ranges to immediately treat the people. It also helps to teach drivers on how to drive in different conditions and better analyse roads to prevent traffics. This predictions also help to formulate or change traffic rules accordingly to reduce Traffic accidents.

Data

Car Accident's data is used in the project. The data contains car accidents which took place within the Seattle area, Washington from the year 2004 to 2020. The data contains severity of each accident, time and condition under which the accident occurred. All these parameters can be used to better predict the severity of accident. The model is aimed to predict whether the accident caused is severe, severity of accident is analysed by considering physical injury and property damage as the severity indicator. The data has many unknown and missing values. Therefore data has to be cleaned to get better results.