Predicting Accident Severity

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Introduction

Background

According to the World Health Organization, road injuries are within the 10 top causes of death worldwide, occupying 8th place in 2016. “Approximately 1.35 million people die each year as a result of road traffic crashes” (WHO, 2020). Also, numbers indicate that around 20 to 50 million suffer injuries and disabilities, turning this problem not only a death cause but economic and social problem around the world. As a result of car accidents many people go through time spending, pain, family member losses and economic losses.

Although there are several causes of car accidents, what is certain is that this is a huge problem that affects all countries around the world, to which governments have paid attention and organizations worldwide support. Efforts go from increasing traffic laws and requirements to improving road infrastructures and people consciousness, however there are also unmeasured consequences for people driving and passing through existing car accidents that result in huge waiting times and even in new accidents nearby that could be avoid.

Data

To address this problem, we will look into car collision information and search for possibilities to predict car accident severity so this data can be used by governments or organizations in local communities, to provide live information on actual car accidents for people to take precautions or change their mobility decisions, avoiding time spending or possible new accidents cause by existing ones.

We will be using data from Seattle city with collision data from 2004 to 2020, looking into different variables such as light, road and climate conditions that are changing circumstances that affect the severity of the accident, thus changing the affectation to the nearby roads and traffic.

References

WHO. (2020). Road traffic injuries. October, 2020, de World Health Organization Sitio web: https://www.who.int/news-room/fact-sheets/detail/road-traffic-injuries