

ANALYZING SEVERITY OF ACCIDENTS

1.1 INTRODUCTION

1.1 Background

According to the World Health Organisation (WHO), road traffic crashes result in the deaths of approximately 1.35 million people around the world each year and leave between 20 and 50 million people with non-fatal injuries. More than half of all road traffic deaths and injuries involve vulnerable road users, such as pedestrians, cyclists and motorcyclists and their passengers.

The young are particularly vulnerable to the world's roads and road traffic injuries are one of the leading causes of death for children and young adults aged 5-29. Young males under 25 years are more likely to be involved in road traffic crashes than females, with 73% of all road traffic deaths occurring among young males in that age. So these were the facts. But my major interest is going to be knowing and accessing the factors that impact accident severity.

1.2 Problem and Interest

In this project, I am going to study some of the **parameters that affect the severity of accidents. Data from official websites will be used, like in my case Accident data from the UK government's website will be analyzed.** By doing so, I will be able to highlight the major conditions in which most of the accidents occur. This will, in turn, help the concerned authorities take effective steps to prevent as many numbers of accidents as possible. On a hopeful note, the findings from this data analysis may even save several lives. The purpose of this project is to

highlight impactful variables while operating a vehicle to improve accident prevention. **Using machine learning algorithms we can create models that can point out the impacting variables which are directly related to the severity of the accidents.**

This is the first time I am trying my hands at such a project, so the report will be quite simple and straightforward with not many complicated terms. Hope it works.