

# Predicting the Severity of Car Accidents

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## 1. Introduction

### 1.1 Background

Traffic accident numbers have inevitably been on the rise, due to population growth and an increasing number of vehicles on the road. In turn, this translates to challenges faced by the trauma centres in hospitals and the traffic police departments. Due to manpower constraints and logistics concerns, the optimal deployment of resources in quick time is largely dependent on the severity of the accident. Hence, having an accurate prediction of accident severity in quick time would have huge benefits.

### 1.2 Problem

This project aims to identify a highly accurate classifier that predicts the severity of car accidents in Seattle, USA, using only input features that were easily identified without much investigation on the accident site.

### 1.3 Interest

This project might be of interest to trauma centres in hospitals and traffic police enforcement. It may also provide some insight to researchers and policy makers within government bodies such as the Healthcare Authority and Land Transport Authority.