# IBM Data Science Professional Certificate

## Applied Data Science Capstone

*Analysis of Severity of Accidents in UK*

Submitted by:

*Somya Bhushan*

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# INTRODUCTION

## 1.1 Background

There are many inventories in automobile industries to design and build safety measures for automobiles, but road accidents are unavoidable. Road accidents are a major world economic and social problem as shown by the report of loss of lives and properties in many countries around the world. Reporting indicated the number of fatalities from road accidents per year of about 1.3 million and 50 million injuries were recorded or an average of 3000 deaths per day and 30,000 injuries per day. Furthermore, its consequences have an impact on economic and social conditions in terms of health care costs of injuries and disabilities. On average, five people die every day on the road in Great Britain and countless more are seriously injured. Britain's road safety record has stagnated in recent years, with the number of road deaths remaining broadly constant for several years. In recent years, there is an increase in the researchers' attention to determine the significant factors that affect the severity of the injuries which is caused due to the road accidents. Accurate and comprehensive accident records are the basis of accident analysis.

## 1.2 Problem

The objective of this analysis is to know and understand more about the severity of accidents and to see whether different variables considered have any effect to the cause of the accident.

## 1.3 Target Audience

The purpose of accident analysis is to help decision-makers understand the nature, causes, and injury outcomes of crashes. The mental and emotional injuries after a car accident can include mental anguish, emotional distress, sleep disturbances, etc. This information provides context for the design of strategies and interventions that will reduce accidents and their consequences.