Intro Part

Car Accident Severity Prediction

1.Introduction/Business Problem

1.1.Introduction/Background

This section defines the business problem wth risks in the mobility area. It is about to solve the decision problem, to drive or not to drive with a car under certain known conditions from the current location to a destination at a planned time in realation to the risk for having an accident.

1.2.Problem

In the following, this report is to predict the severity of an accident. The scenario could be described as follows: Say, you are driving to another city for work or to visit some friends. It is rainy and windy, and on the way, you come across a terrible traffic jam on the other side of the highway. Long lines of cars barely moving. As you keep driving, police car start appearing from afar shutting down the highway. Oh, it is an accident and there's a helicopter transporting the ones involved in the crash to the nearest hospital. They must be in critical condition for all of this to be happening. Now, wouldn't it be great if there is something in place that could warn you, given the weather and the road conditions about the possibility of you getting into a car accident and how severe it would be, so that you would drive more carefully or even change your travel if you are able to?

1.3.Interests

In the following this is handled as a data science problems that targets the car drivers audience in the first place, but is also meant to help all involved stakeholders to mitigate risk in the mobility, insurance, healthcare area, and at least for the family of the driver.
This is exactly what will be handled in this report: to predict the severity of a possible car accident on the base of available car accident data from the past and current driving conditions.