

# IBM Data Science Capstone: Car Accident Severity Report

## Introduction | Business Understanding

To reduce car accidents in a city, an algorithm must be developed to predict the severity of an accident given the condition of weather, road and visibility conditions. When these circumstances are bad, this model will alert drivers about accident.

## Data Understanding

Our predictor or target variable will be 'SEVERITYCODE' it is used to measure the severity of an accident from 0 to 5 within the dataset. Attributes used to weigh the severity of an accident are 'WEATHER', 'ROADCOND' and 'LIGHTCOND'.

Severity codes are as follows:

- 0 -Little to no Probability -Clear Conditions
- 1 -Very Low Probability - Chance or Property Damage
- 2 -Low Probability - Chance of Injury
- 3 -Mild Probability - Chance of Serious Injury
- 4 -High Probability - Chance of Fatality