**Business Problem**

As more cars are on the road commuting to work from the suburbs, the traffic congestion is becoming a huge problem. Cities without mass public transportation are especially hit hard with bad traffic problems. As the number of vehicles increases, so also does traffic accidents. In addition to the number of vehicles, weather conditions, lighting, and road conditions play a significant part in traffic accidents.

A case study was conducted to analyze the conditions that cause automobile accidents. Using the case study data, there needs to be a program developed to predict the severity of an accident based on some of the factors in the dataset. Using the analysis, more emergency vehicles can be on standby, and drivers could be more careful when any of these conditions exist.