PREDICTING CAR ACCIDENT SEVERITY

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1.   Introduction
1.1. Background

Car accidents and traffic jam have undeniably always been a headache problem to all car drivers. Car accidents happen for a lot of reasons. Those can stem from drivers' own mistakes as carelessness, alcohol, or speeding. Besides, there are also cases that the drivers get involved into collisions due to uncontrollable factors. For example, drivers are more prone to accidents when it is raining, and the road becomes wet and slippery. Or, even though the weather is clear, accidents are more likely to happen at several locations due to the characteristics of those places that make it more difficult for drivers to watch out for other drivers.

1.2. Objective

Due to the likelihood of car accidents to happen along the roads and the negative impacts they create, I was motivated to build a model to predict the possibility of a car accident and its severity. Specifically, I will use the data science powers to build a predictive model that can warn drivers about the possibility of getting into a car accident and the potential severity, so that the drivers can drive more carefully or reroute if possible.