**Applied Data Science Capstone Report**

**Introduction:**

Accidents across the world are considered as a critical and major problem. Traffic accidents can cause physical as well as financial impacts. The factors leading to accidents may involve weather conditions, speeding, road quality etc. With the help of Machine learning, we could be able to create a model to predict the severity of the accidents based on the past occurrences, this which would help the drivers to be cautious and prevent accidents in the future. In this project, we would majorly consider the accidents that took place in the United States.

**Data:**

The Data set used in this project is obtained from Kaggle. The details available are from Feb 2016 to June 2020. The dataset consists of various features like Wind\_speed, weather\_condition, precipitation, pressure which would help in determining the severity of the accidents. We also have sources as a column which specifies where the data are extracted from. Necessary data cleaning/selection strategy to be followed for an optimal accuracy in the model.