Applied Data Science Capstone-

**Introduction/Business Problem**

The objective of my analysis is to find whether severity of accidents in terms of any property damage or human injury, is based on factors like weather on the day/week/month, condition of the road, light on the day/week/month, collision type and address of the past accidents. Co-related variables and predicting will benefit the Seattle Traffic police and the Seattle department of transportation in addressing the root cause, defining required road safety strategies and send proactive advisories to potential commuters/public to prevent accidents. This will save human life and public/private property assets.

**Data**

**Variables for Prediction:**

1. ADDRTYPE
2. WEATHER
3. ROADCOND
4. LIGHTCOND

**Variable to Predict:**

SEVERITYCODE

**Explanation:**

After exploring the data for a while, I felt it would be best to go with the variables mentioned above. The collision address type (ADDRTYPE), the weather conditions during the time of the collision (WEATHER), the condition of the road during the collision (ROADCOND), the light conditions during the collision (LIGHTCOND). All of them play a crucial role in determining the severity of an accident.