Accident Severity Prediction using Seattle Accident Dataset

(Applied Data Science Capstone Project)

Photo by **mali maeder** from **Pexels**

Introduction | Problem Understanding

Vehicular accidents, no doubt, cause damage to people involved in the collision and also damage to property. The severity of harm/damage caused by such accidents is dependent on a large number of factors. Attempts to study existing data documenting collisions may lead to insights into common factors which may have a part to play in determining the severity (property damage or injury to humans) caused by the accident. Effectively, the problem narrows down to a binary classification of the severity of the collision, based on external features.

The dataset being used is the Seattle Accident dataset provided by Seattle PD, which has collection of collision data from 2004.

Business Problem | Application Perspective

- The insights gained by such a study would help Seattle Police authority in making changes to some of the external factors in reducing the severity of the accident. This could also help the public in being cautious while driving when some common factors may be evident.
- An additional area where this prediction problem could help would be in narrowing down accident prone locations in Seattle.