Predicting severe occurrences of automobile collisions in Seattle, WA

# Introduction

## Description of Problem

There are over 200 million licensed drivers in America. With that many people on the road, accidents are going to happen. The United States Department of Transportation estimates about 7 million car accidents happen nationwide each year. No matter how safe a driver you are, there’s a good chance you’ll get into at least one accident in your lifetime.

As for the Emerald City, Seattle, it ranks as one of the nation's worst cities to drive in and own a car, according to a newly released study. The report, by personal finance website [WalletHub](https://wallethub.com/edu/best-worst-cities-to-drive-in/13964/), found that Seattle is the 10th worst U.S. city for drivers.

## Background

The purpose of this report is to predict the severity of automobile collisions in Seattle with the application of machine learning models. These models should assist the [Public Development Authority of Seattle](https://library.municode.com/wa/seattle/codes/municipal_code?nodeId=TIT11VETR) focus limited resources towards the variables that have the highest impact on reducing the number of collisions and improve public safety.