

## 2.Data

Data used in this report were obtained from Collisions-All Years provided by SDOT Traffic Management Division. This dataset contains the collisions that took place for a period(2004-2020) in Seattle, USA. The total number is 194673. SDOT investigated severity, situations of accidents, causes of accidents(accidents caused by influence of drugs or alcohol, inattention and overspeed) and surrounding conditions(weather, road condition, light condition and so on) for each collision. In this report, I will separate surrounding conditions form data and see the relation between severity and surrounding conditions with machine learning. I will not use data related to human factors such as overspeed. Drivers are required to obey laws. This is the solution to reduce human factors.