**Dataset**

Seattle Department of Transportation provides traffic accident data with all kinds of collisions from 2004 for almost 15 years. The degree of collision rises from property damage, injury, serious injury finally to fatality. Among many attributes, we would look into both nature and human factors which may lead to car accidents. Nature factors include 'WEATHER','ROADCOND' and 'LIGHTCOND' which represents weather, road and view circumstance. Human factors include, the status of drivers such as 'INATTENTIONIND','UNDERINFL', and 'SPEEDING' which shows the concentration of drivers mind, drug or alcohol influence and over speed.

To predict the damage level of road accidents, the indicator 'SEVERITUCODE' is chosen as the dependent variable.

**Attribute Data type, Description**

**Length**

***WEATHER*** Text, 300 A description of the weather conditions during the time of collision

***ROADCOND*** Text, 300 The condition of the road during the collision.

***LIGHTCOND*** Text, 300 The light conditions during the collision.

***INATTENTIONIND*** Text, 1 Whether or not collision was due to inattention. (Y/N)

***UNDERINFL*** Text, 10 Whether or not a driver involved was under the influence of drugs or alcohol.

***SPEEDING*** Text, 1 Whether or not speeding was a factor in the Collison. (Y/N)