

Capstone Project - Car Accident Severity

Introduction/Business Problem

The problem that we are going to solve is to predict the probability of having a car accident.

This prediction can help to warn the driver in advance and can therefore, hopefully decrease the real accident rate.

Data Analytics

After analyzing all the attributes, we decide to use the following 7 attributes as input:

- INCDTTM: The date and time of the incident.
- INATTENTIONIND: Whether or not collision was due to inattention. (Y/N)
- UNDERINFL: Whether or not a driver involved was under the influence of drugs or alcohol
- WEATHER: A description of the weather conditions during the time of the collision
- ROADCOND: The condition of the road during the collision
- LIGHTCOND: The light conditions during the collision
- SPEEDING: Whether or not speeding was a factor in the collision

The output could be either SEVERITYCODE to show the severity of the potential accident or ST_COLCODE to describe the type of collision in details.