

Introduction/Business Problem

CURRENTLY, DRIVING THROUGH THE STREETS IN VEHICLES, WHETHER PUBLIC OR OWNED, IS ONE OF THE MOST DAILY ACTIVITIES THAT PEOPLE CARRY OUT. EVEN SO, TRAFFIC ACCIDENTS CAUSE ABOUT 40,000 DEATHS A YEAR ONLY IN THE UNITED STATES. TO REDUCE THE FREQUENCY AND THE SEVERITY OF CAR COLLISIONS IN A COMMUNITY, AN ALGORITHM MUST BE DEVELOPED TO PREDICT THE SEVERITY OF AN ACCIDENT GIVEN THE CURRENT WEATHER, ROAD AND VISIBILITY CONDITIONS. WHEN CONDITIONS ARE PRONE TO FATAL ACCIDENTS, THE MODEL DEVELOPED WILL ALLOW DRIVERS TO BE ALERTED TO THE LIKELIHOOD OF AN ACCIDENT AND TO BE REMINDED TO DRIVE CAREFULLY.