Introduction/Business Problem

In Our Day today life, we may not experience things that happen suddenly always but things are still happening around which we don't have control over. One of such incidents is Car accidents and there are serval reasons for that to occur. There are cases where lives are saved with immediate action and cannot be saved also. This project is done on regard to Prevent or reduce the such incidents. The project will work on different cases the accidents occur and provide a solution how it can be reduced after analyzing the reasons for the incidents. Below Project will give the Government/ People understanding on the accidents occur in certain locations and how to prevent the accident from happening.

Data section:

In section, we are going to understand the data set we are going pick as samples. The data set will consist of inputs such as location, severity or no of accidents occurred, weather condition, road condition, period of the day and other optional inputs like road signal, traffic condition and cause of accident. These inputs will be processed and used for the analysis purpose.

The severity will be numbered from 0-5 where 0 is least time accident occurred and 5 is the maximum value. The weather condition will be rainy or dry. Road condition will be normal, wet road or damaged. And finally the period of the day will be day, noon and night which also help us understand the cause of an accident.

Sample data set as below.

	SEVERITYCODE	X	Y	OBJECTID	INCKEY	COLDETKEY	REPORTNO	STATUS	ADDRTYPE	INTKEY	...	ROADCOND	LIGHTCOND	PEDROWNO
0	2	-122.323148	47.703140	1	1307	1307	3502005	Matched	Intersection	37475.0	...	Wet	Daylight	
1	1	-122.347294	47.647172	2	52200	52200	2607959	Matched	Block	NaN	...	Wet	Dark - Street Lights On	
2	1	-122.334540	47.607871	3	26700	26700	1482393	Matched	Block	NaN	...	Dry	Daylight	
3	1	-122.334803	47.604803	4	1144	1144	3503937	Matched	Block	NaN	...	Dry	Daylight	
4	2	-122.306426	47.545739	5	17700	17700	1807429	Matched	Intersection	34387.0	...	Wet	Daylight	

5 rows × 38 columns