Analysis of Traffic Accidents and Violations in Chicago

Dataset Description

Description:

This dataset contains the information about the traffic crash on various city street of Chicago. All the crashes are reported is as per the SR1050, of the Illinois Department of Transportation. The crashes are recorded when report is finalized by reporting officer. Below is the detailed description of the dataset:

Source	https://data.cityofchicago.org/
File Name	Traffic_Crashes.CSV
Dataset	Traffic Crashes
Region	Chicago
Note	Data value is recorded by reporting officer, to find the raw list of attributes go to https://data.cityofchicago.org/Transportation/Traffic-Crashes-Crashes/85ca-t3if

Relevant and Cleaned dataset Attributes details:

Attribute	Attribute Value Type	Min - Max	Data Type	Example Values	Description
Crash Date	Date	03/03/2013 – 06/28/2020	Interval	04/10/2016	Date of the crash
Street Number	Numeric	NA	Nominal	244	Street address number of crash location
Street Direction	String	NA	Nominal	W	Street address direction of the crash location
Street Name	String	NA	Nominal	Ashland Avenue	Street address name of crash location
Posted Speed Limit	Numeric	0 - 70	ratio	35	Posted speed limit of the area
Trafficway Type	String	NA	Nominal	One-way	Type of the traffic way
First Crash Type	String	NA	Nominal	Parked Motor Vehicle	Type of first collision in crash
Primary Contributory Cause	String	NA	Nominal	DISREGARDING TRAFFIC SIGNALS	Most Significant cause of the crash

Red Light Violations

This dataset contains the information about the red-light violations on various location in the city of Chicago. The records in the dataset are collected by camera system of the city which are reviewed by two separate city contractors. Below is the detailed description of the dataset:

Source	https://data.cityofchicago.org
File Name	Red_Light_Camera_Violations.CSV
Dataset	Red Light Violations
Region	Chicago
Note	Data value is recorded by the speed camera, to find the raw list of attributes go to: https://data.cityofchicago.org/Transportation/Red-Light-Camera-Violations/spqx-js37

Relevant and Cleaned dataset Attributes details:

Attribute	Attribute Value Type	Min - Max	Data Type	Example Values	Description
Violation Date	Date	07/01/2014 – 06/15/2020	Interval	07/10/2018	Date of the Violation
Street Number	Numeric	NA	Nominal	10	Street address number of violation location
Street Direction	String	NA	Nominal	S	Street address direction of the violation location
Street Name	String	NA	Nominal	IRVING PARK	Street address name of violation location
Violations	Numeric	1 - 186	ratio	89	Number of violations occurred in the location on particular date

Speed Camera Violations

This dataset contains the information about the speed camera violations on various location in the city of Chicago. The records in the dataset are collected by camera system of the city which are reviewed by two separate city contractors. Below is the detailed description of the dataset:

Source	https://data.cityofchicago.org
File Name	Speed_Camera_Violations.CSV
Dataset	Speed Camera Violations
Region	Chicago
Note	Data value is recorded by the speed camera, to find the raw list of attributes go to https://data.cityofchicago.org/Transportation/Speed-Camera-Violations/hhkd-xvj4

Relevant and Cleaned dataset Attributes details:

Attribute	Attribute Value Type	Min - Max	Data Type	Example Values	Description
Violation Date	Date	07/01/2014 – 06/21/2020	Interval	07/10/2016	Date of the Violation
Street Number	Numeric	NA	Nominal	31	Street address number of violation location
Street Direction	String	NA	Nominal	E	Street address direction of the violation location
Street Name	String	NA	Nominal	HALSTED STREET	Street address name of violation location
Violations	Numeric	1 - 479	ratio	250	Number of violations occurred in the location on particular date