Chicago Traffic Data Dashboard

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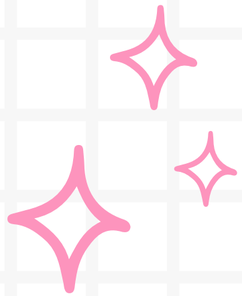
Introduction

This dashboard began as a project idea from a Python course I took during my MPP, to cover the creation and use of Shiny Applications

Layout



Top 10 Traffic Alerts in Chicago

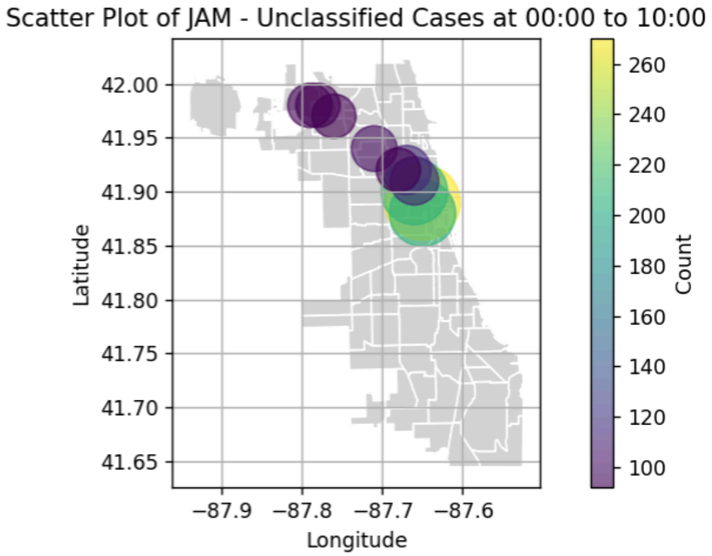
Select Type and Subtype:

JAM - Unclassified

Switch Button

Hour Range of the Day

0 10 23



latitude	longitude	count
41.89	-87.65	270
41.90	-87.66	209
41.88	-87.65	209
41.92	-87.67	115
41.91	-87.66	111
41.94	-87.71	99
41.98	-87.79	93
41.92	-87.68	92
41.98	-87.78	92
41.97	-87.76	92

Features

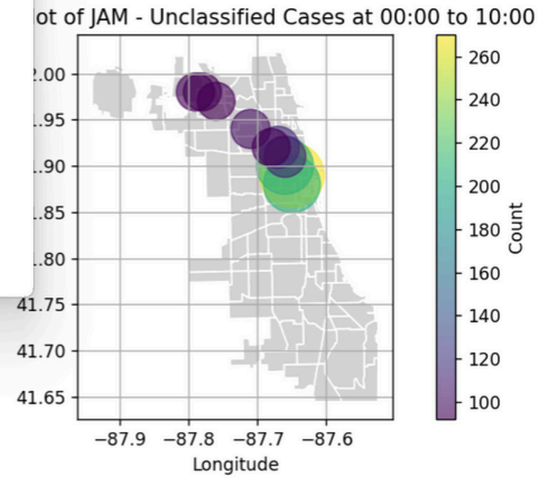
Dropdown

Top 10 Traffic Alerts in Chicago

Select Type and Subtype:

JAM - Unclassified

- JAM - Unclassified
- ACCIDENT - Unclassified
- ROAD CLOSED - Unclassified
- HAZARD - Unclassified
- ACCIDENT - Major
- ACCIDENT - Minor
- HAZARD - On Road
- HAZARD - On Shoulder
- HAZARD - Weather
- JAM - Heavy Traffic
- JAM - Moderate Traffic
- JAM - Stand Still Traffic
- ROAD CLOSED - Event
- ROAD CLOSED - Construction
- JAM - Light Traffic
- ROAD CLOSED - Hazard



latitude	longitude	count
41.89	-87.65	270
41.90	-87.66	209
41.88	-87.65	209
41.92	-87.67	115
41.91	-87.66	111
41.94	-87.71	99
41.98	-87.79	93
41.92	-87.68	92
41.98	-87.78	92
41.97	-87.76	92

Slider & Switch - Off

Top 10 Traffic Alerts in Chicago

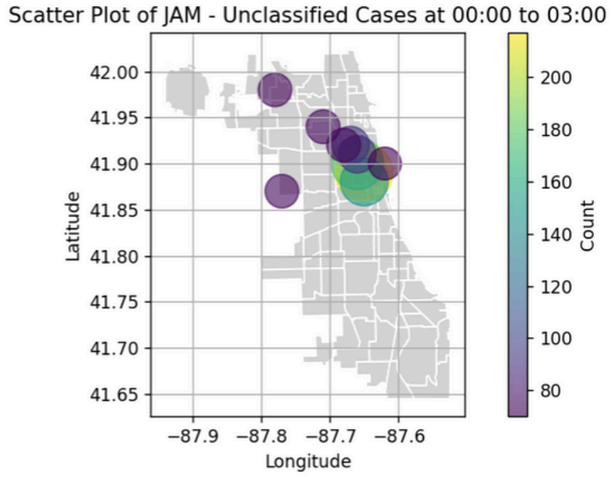
Select Type and Subtype:

JAM - Unclassified

Switch Button

Hour Range of the Day

0 3 23



latitude	longitude	count
41.89	-87.65	217
41.90	-87.66	178
41.88	-87.65	148
41.92	-87.67	92
41.91	-87.66	91
41.94	-87.71	74
41.92	-87.68	74
41.87	-87.77	73
41.98	-87.78	73
41.90	-87.62	70

Slider & Switch - Off

Top 10 Traffic Alerts in Chicago

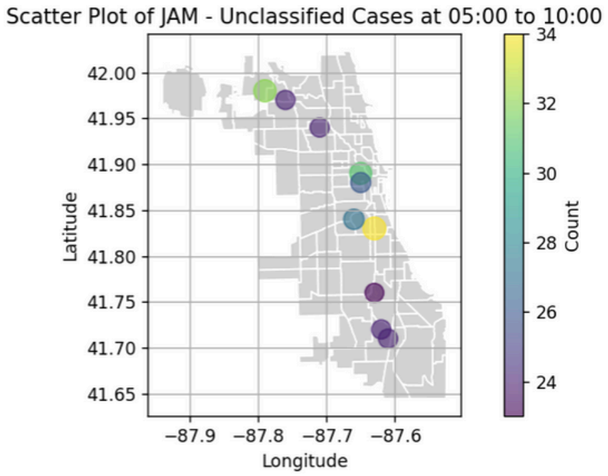
Select Type and Subtype:

JAM - Unclassified

Switch Button

Hour Range of the Day

0 5 10 23



latitude	longitude	count
41.83	-87.63	34
41.98	-87.79	32
41.89	-87.65	31
41.84	-87.66	27
41.88	-87.65	26
41.97	-87.76	24
41.72	-87.62	24
41.71	-87.61	24
41.94	-87.71	24
41.76	-87.63	23

Slider & Switch - On

Top 10 Traffic Alerts in Chicago

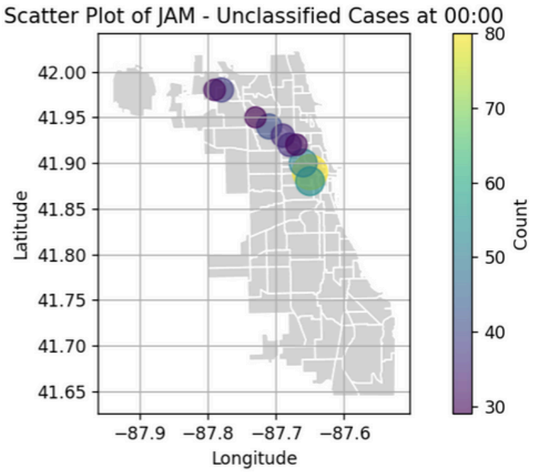
Select Type and Subtype:

JAM - Unclassified

Switch Button

Single Hour of the Day

0 23



latitude	longitude	count
41.89	-87.65	80
41.88	-87.65	54
41.90	-87.66	51
41.94	-87.71	41
41.98	-87.78	38
41.92	-87.68	36
41.93	-87.69	35
41.98	-87.79	30
41.92	-87.67	30
41.95	-87.73	29

Slider & Switch - On

Top 10 Traffic Alerts in Chicago

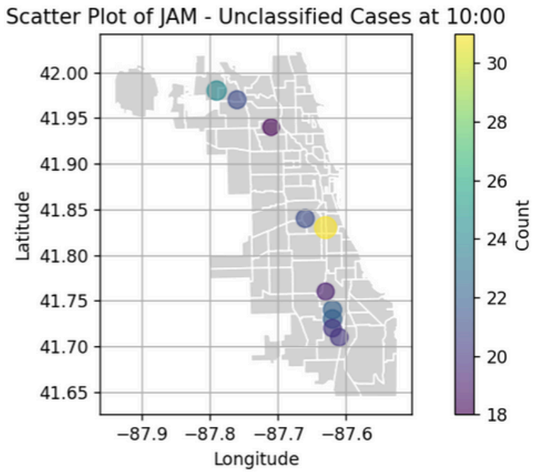
Select Type and Subtype:

JAM - Unclassified

Switch Button

Single Hour of the Day

0 10 23



latitude	longitude	count
41.83	-87.63	31
41.98	-87.79	24
41.74	-87.62	22
41.73	-87.62	22
41.97	-87.76	21
41.84	-87.66	21
41.72	-87.62	20
41.71	-87.61	20
41.76	-87.63	19
41.94	-87.71	18

Uses

Potential Uses

- Tracking Location with highest concentration of Accidents

Potential Uses

- Tracking Location with highest concentration of Accidents
- Tracking Time of the day with highest concentration of Traffic Jams

Extension Ideas

Some ways this idea could be extended to make it more useful in practice include deriving the data from publicly available websites, which are regularly updated

Thank You