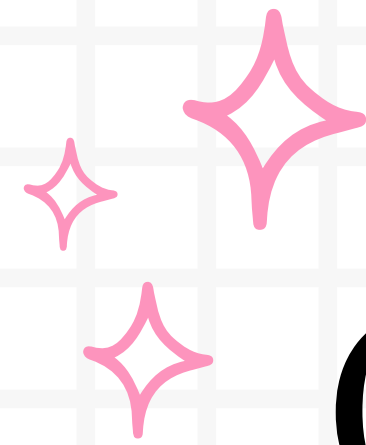




# Chicago Traffic Data Dashboard

By: Prashanthi Subbiah



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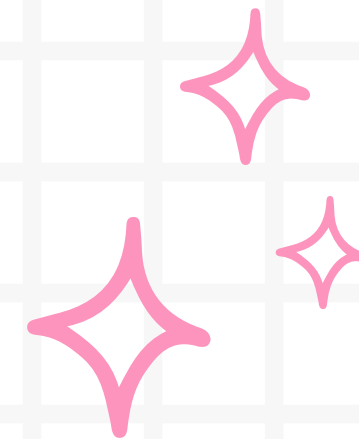
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# Introduction

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

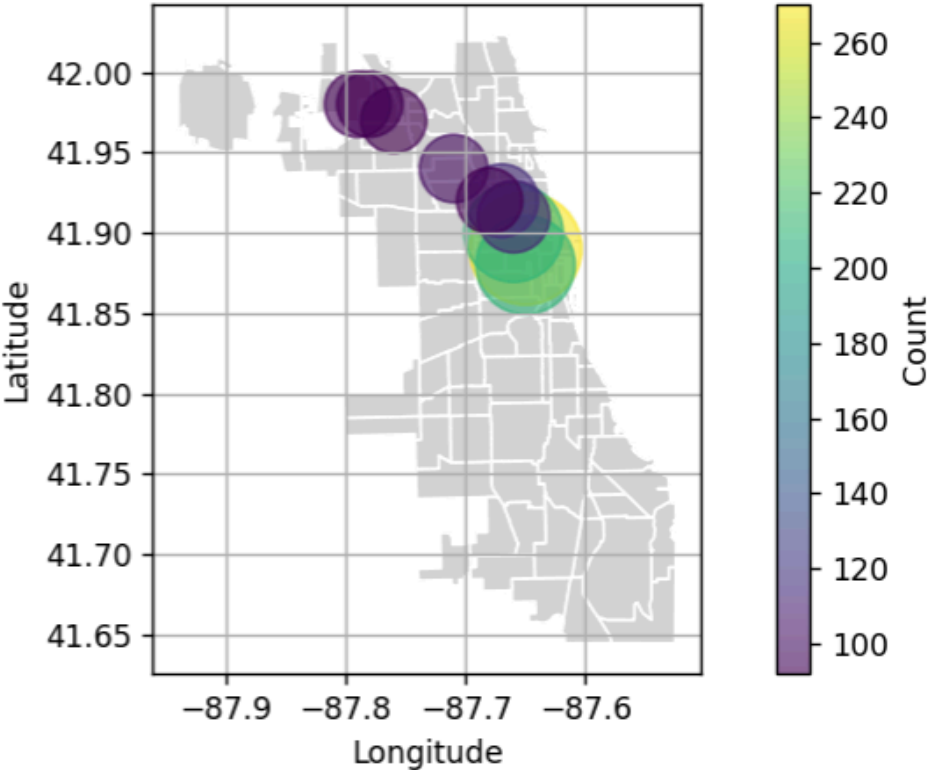
Hour Range of the Day

0

10

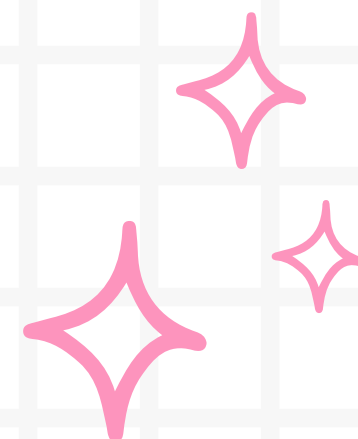
23

Scatter Plot of JAM - Unclassified Cases at 00:00 to 10:00



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

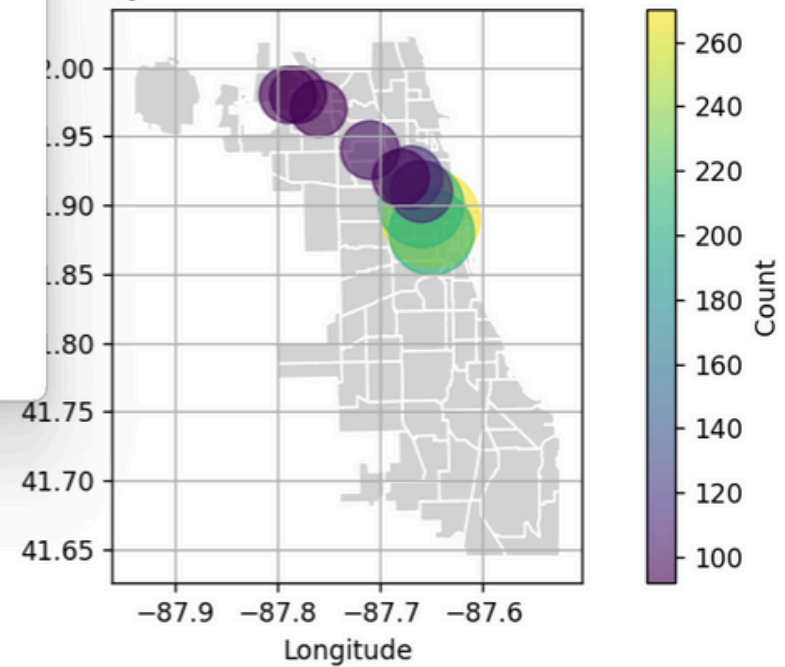
ROAD CLOSED - Event

ROAD CLOSED - Construction

JAM - Light Traffic

ROAD CLOSED - Hazard

Plot of JAM - Unclassified Cases at 00:00 to 10:00



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

# Switch – Off

## Top 10 Traffic Alerts in Chicago

Select Type and Subtype:

JAM - Unclassified

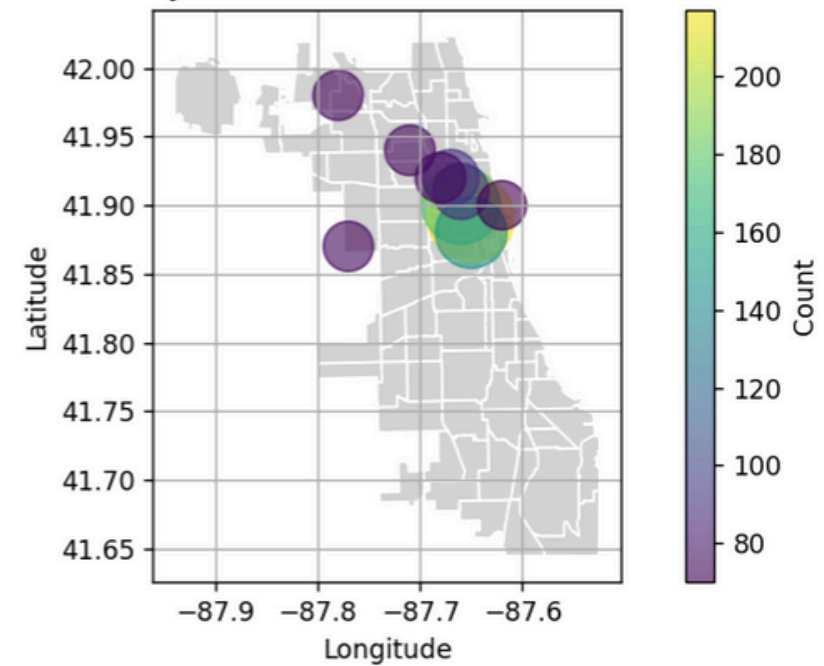
☐ Switch Button

Hour Range of the Day

0 3

23

Scatter Plot of JAM - Unclassified Cases at 00:00 to 03:00



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



# Switch – Off

## Top 10 Traffic Alerts in Chicago

Select Type and Subtype:

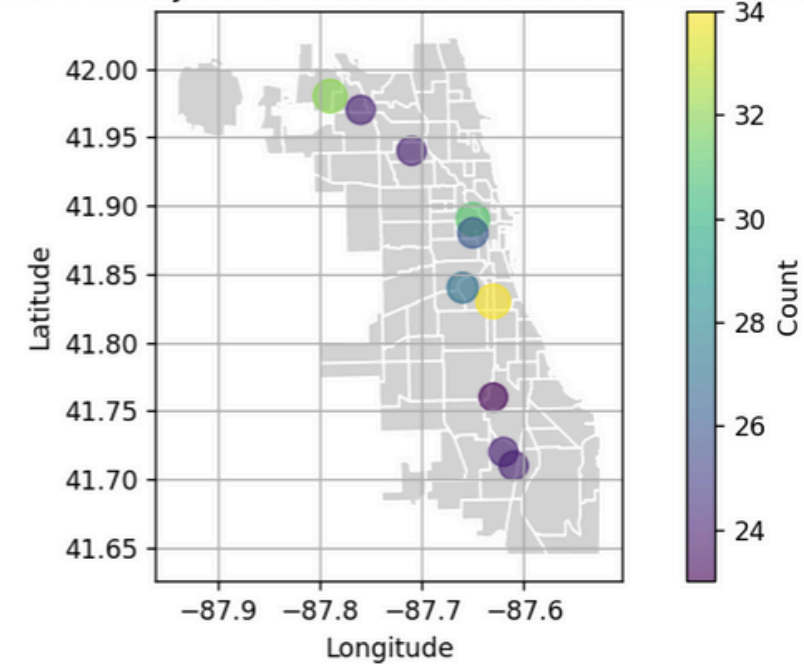
JAM - Unclassified

☐ Switch Button

Hour Range of the Day



Scatter Plot of JAM - Unclassified Cases at 05:00 to 10:00



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

# Switch – On

## Top 10 Traffic Alerts in Chicago

Select Type and Subtype:

JAM - Unclassified

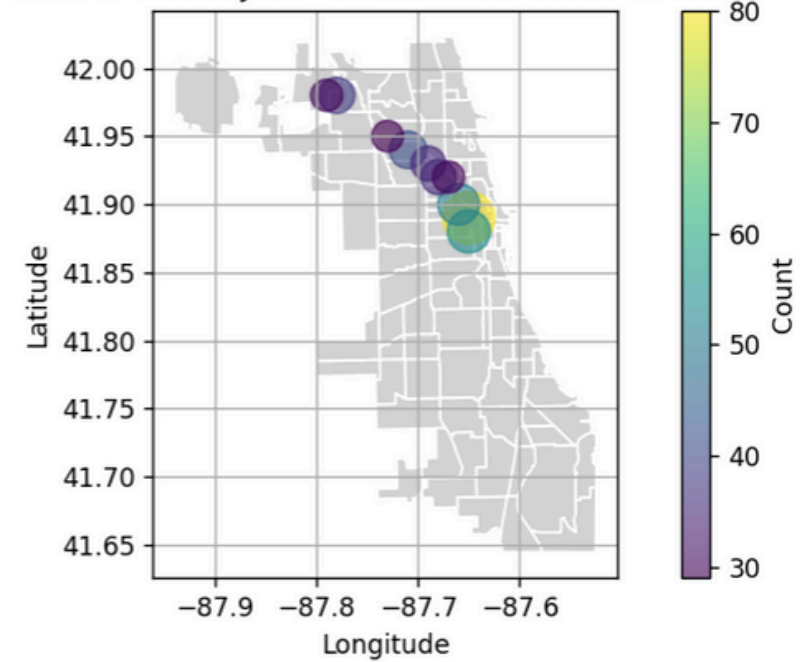
☒ Switch Button

Single Hour of the Day

0

23

Scatter Plot of JAM - Unclassified Cases at 00:00



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

# Switch – On

## Top 10 Traffic Alerts in Chicago

Select Type and Subtype:

JAM - Unclassified

☒ Switch Button

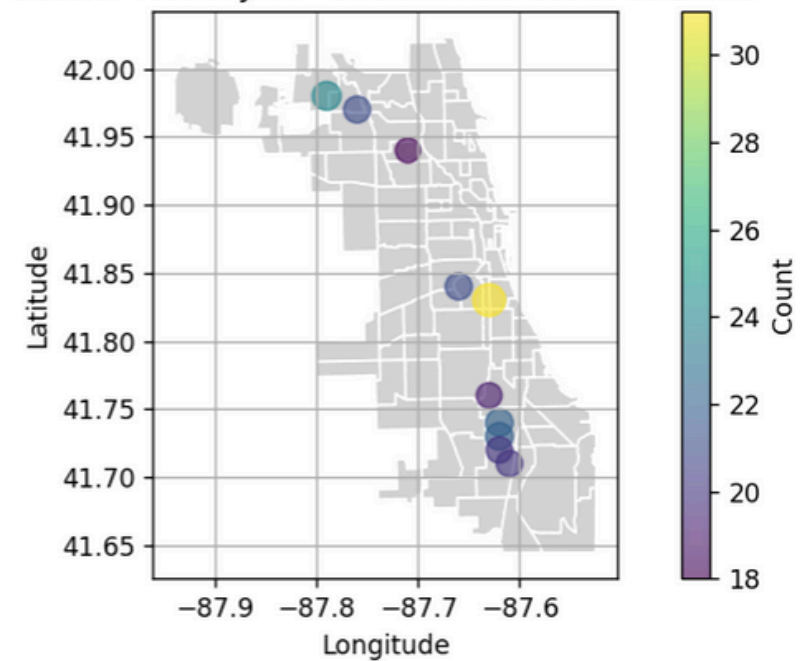
Single Hour of the Day

0

10

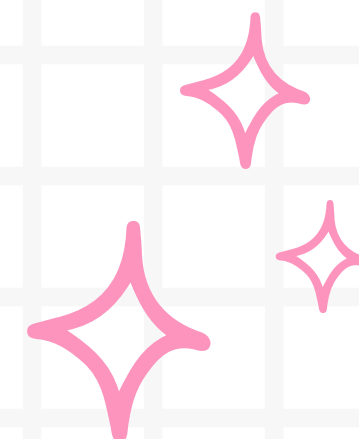
23

Scatter Plot of JAM - Unclassified Cases at 10:00



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

