

Chicago Crimes

Chicago Community Area Crimes

Project Overview

Average number of crimes over all community areas: 3342. Orange bars: above average. Blue bars: below average.

The demographics of each of the community areas is important to understand before answering which are the most important in ..

Higher number of crimes per capita is generally associated with younger age, lower income, higher unemployment rate. One ..

Now that we understand the demographics of the community areas, we ..

Main Question:

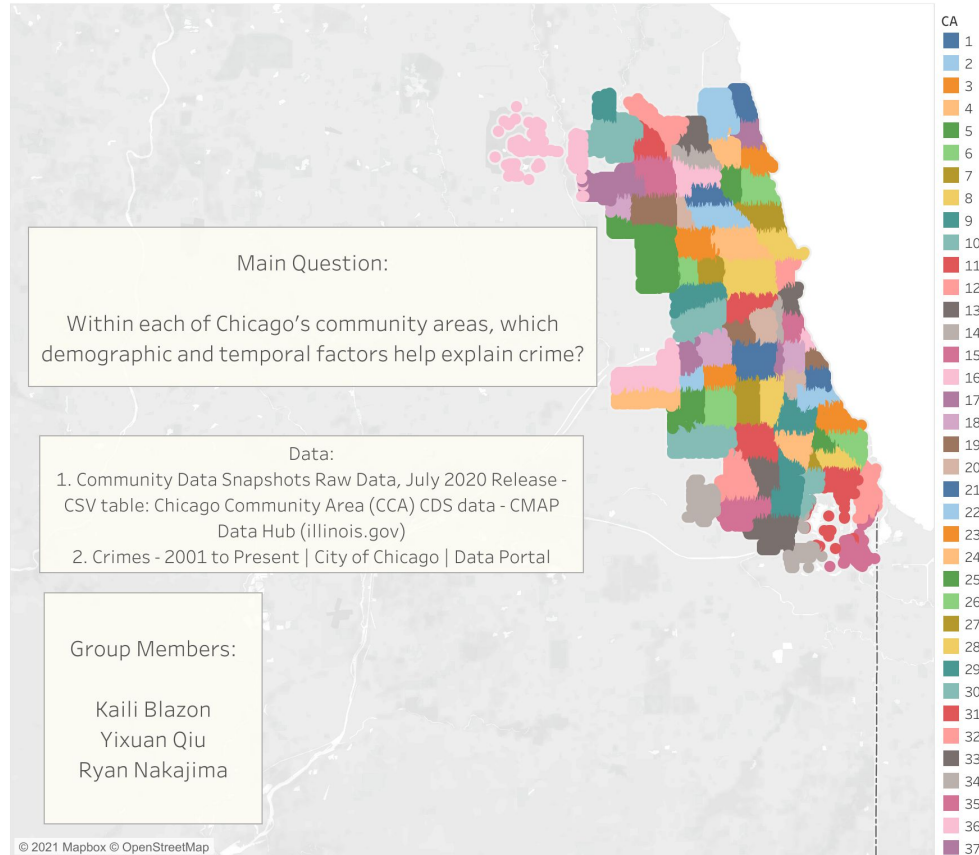
Within each of Chicago's community areas, which demographic and temporal factors help explain crime?

Data:

1. Community Data Snapshots Raw Data, July 2020 Release - CSV table: Chicago Community Area (CCA) CDS data - CMAP Data Hub ([illinois.gov](https://data.hub.illinois.gov/))
2. Crimes - 2001 to Present | City of Chicago | Data Portal

Group Members:

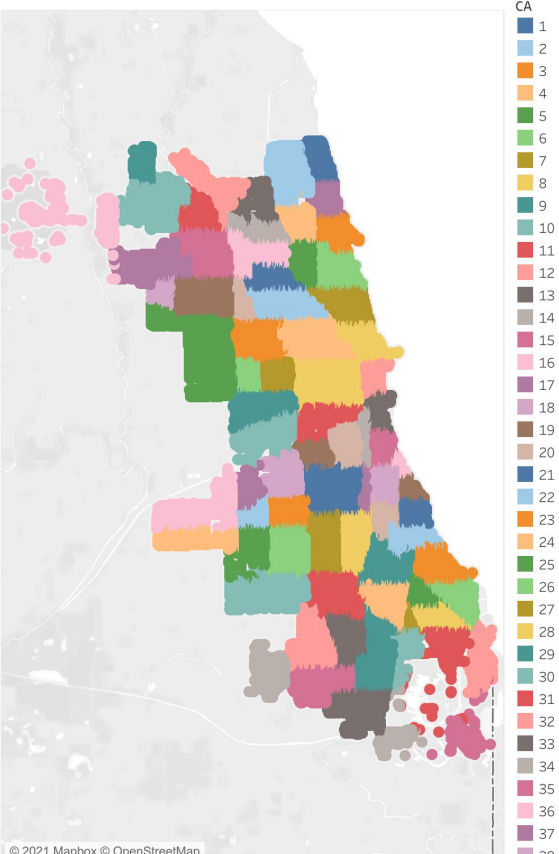
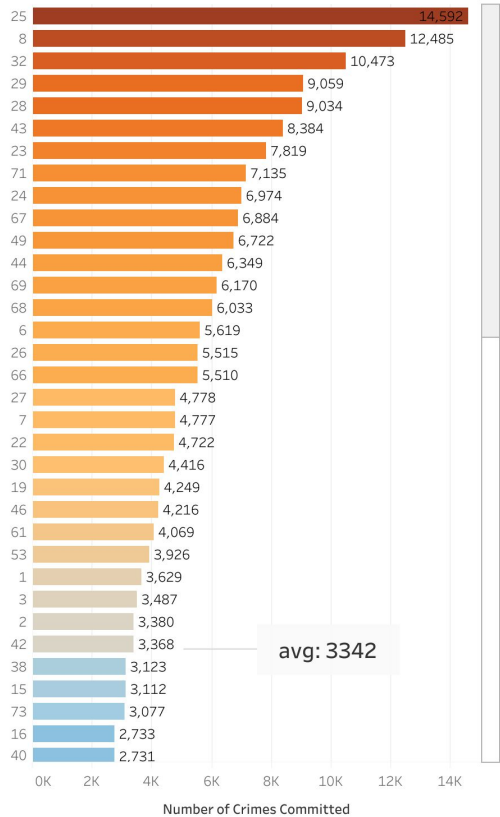
Kaili Blazon
Yixuan Qiu
Ryan Nakajima



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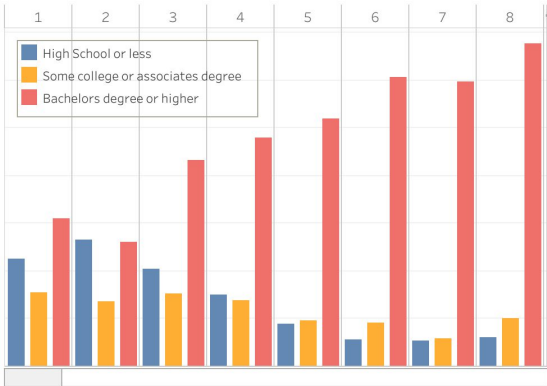
Number of Crimes per Community Area



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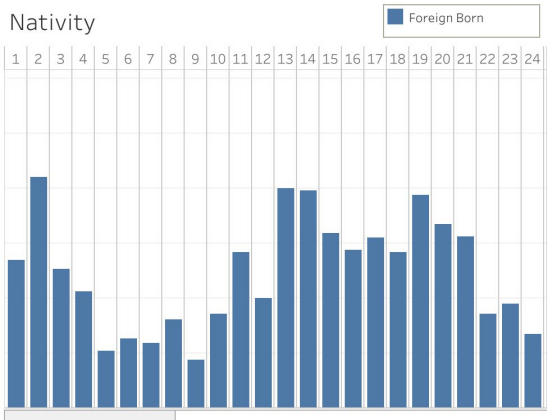
Education Level



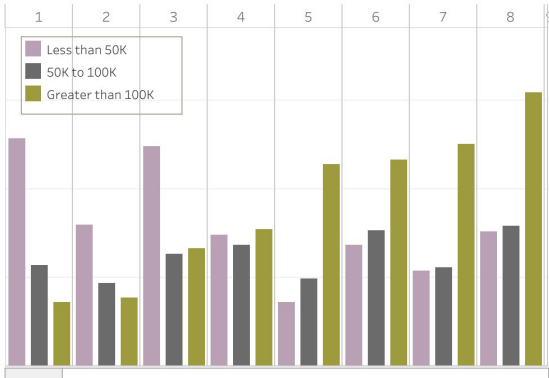
Age



Nativity



Income



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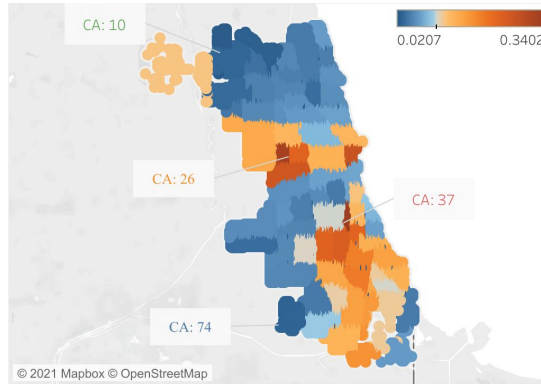
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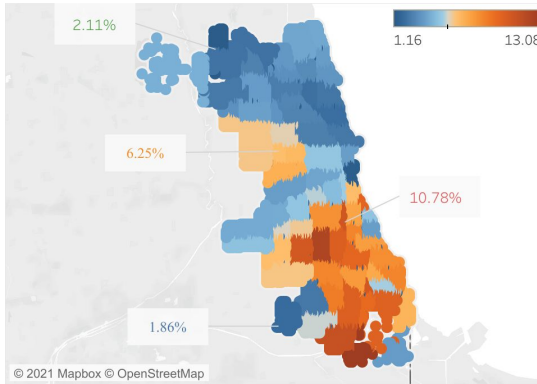
Now that we understand the demographics of the community areas, we need to understand the crimes committed.

The heatmap shows quarterly, monthly, and daily trend. The temporal factors include weather and holidays. Among..

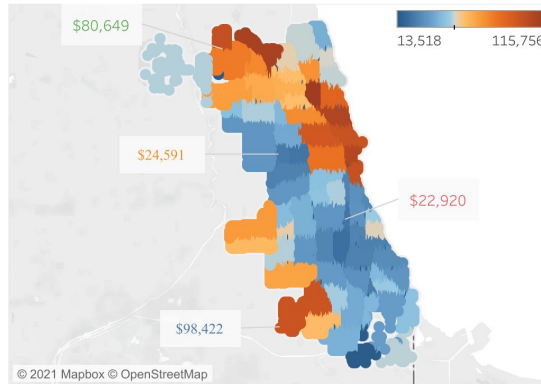
Number of Crimes Per Capita (AVG: 0.1052)



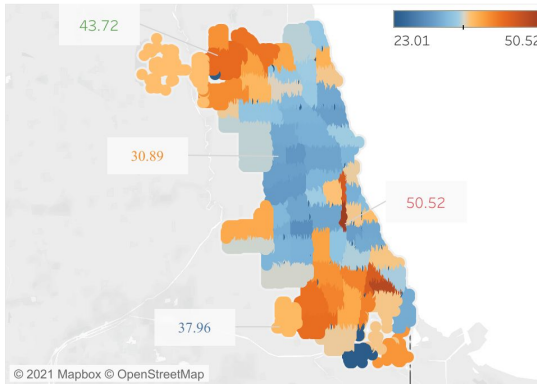
Unemployment Rate (%) (AVG: 5.48%)



Median Income (AVG: 53,334.5)



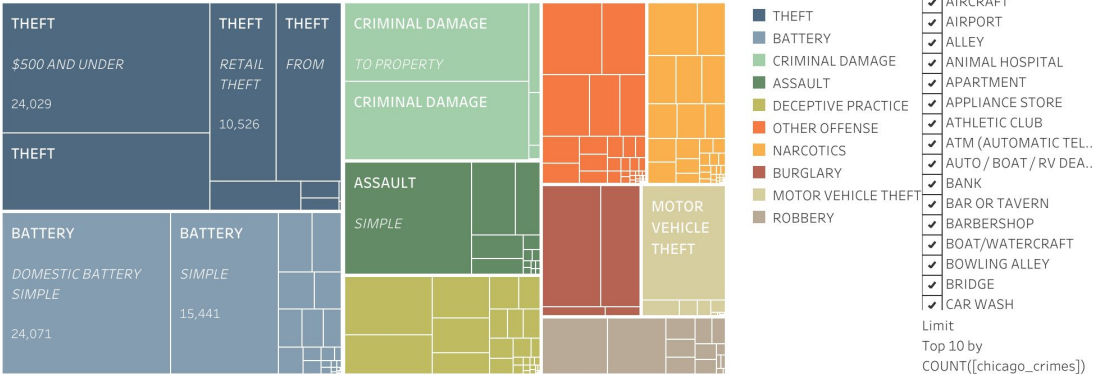
Median Age (AVG: 36.06)



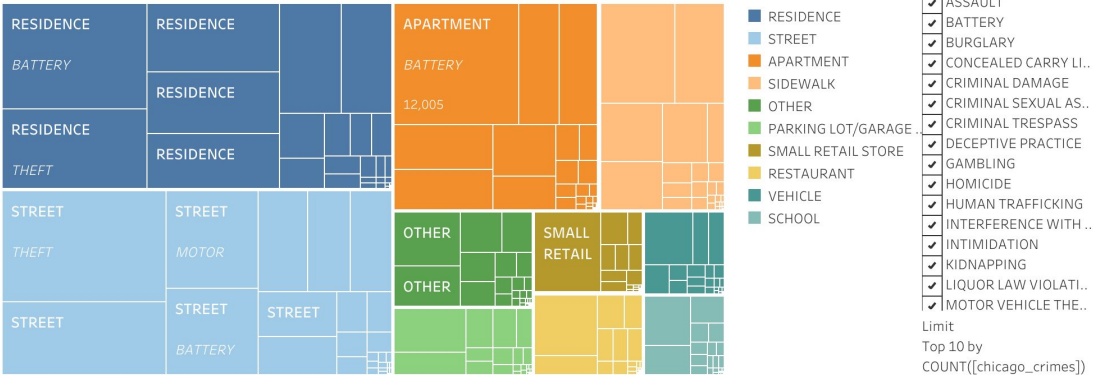
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Crime Type and Description



Crime Location and Type



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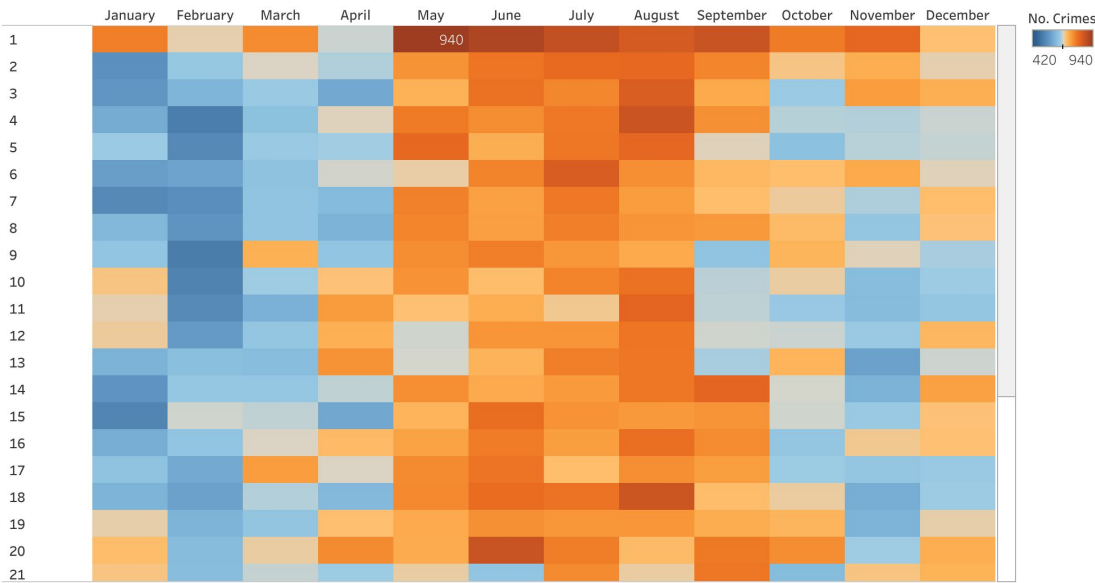
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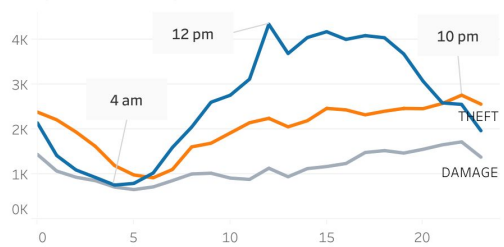
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Descriptive Statistics

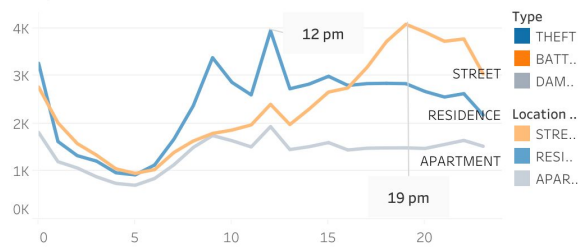
Query Findings



Hourly Trend - Top 3 Types



Hourly Trend - Top 3 Locations



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Descriptive Statistics

Query Findings

Conclusions

1.

Findings from Regressions

Three variables were significant:

- a) Foreign Born
- b) Income Less than 50K
- c) Bachelor or Graduate Degree

2.

Fuller Park has the highest crime per capita.

Demographics:

- 1st in people who have an income of 50K or less
- 2nd highest in people with an education with HS diploma or less
- 3rd highest unemployment percentage



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1. Most Common Type: Theft (> 20% of all crimes)
Theft in Residential Places: 21% of all theft crimes
Theft in Stores: 19% of all theft crimes

2. Least Common Crime Types:
Narcotic Violation, Homicide, Human Trafficking, Public Indecency

3. Most Common Crime Locations:
Pathways and Residential Areas

4. Special Time:
Most Common Crime Type at 9 am: Deceptive Practice

5. Juvenile Delinquency:
Common Crime Types in Areas with Large Young Populations:
Battery, Theft, Criminal Damage, Narcotics

6. School Crime:
Assault with Knife
Sexual Assault
Criminal Trespass to Vehicles
Deceptive Practice

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Answering our initial question:

Demographics vary based on the area in Chicago, however there are common links to crime. The main ones include income, education, unemployment rate, and nativity.

How can our research help Chicago Areas?

Actions:

1. Putting more funding into the **education system**, especially the South side of Chicago
2. Increasing job opportunities by funding public projects and helping to **combat unemployment**.
3. Improving and **advancing policing** that lowers theft and crime, especially during the warmer m..

Reflection: what to take into account?

A person that commits a crime may not belong to that community area demographic. For example, someone who commits a homicide in Fuller Park might actually be from Springfield.