
Final Project - Crime Analysis in Chicago

Team 8:

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Agenda

1. Business Case Overview
2. Data Sources
3. EDA, Data Modeling & Methodology
4. Insights

1. Business Case Overview



A Clearer, More Comprehensive View of Crime in Chicago

Problem:

- How do you maximize your chances of surviving in Chicago based on neighborhood safety, demographics, business availability, weather patterns, and access to police services?

Why it matters:

- Integrates diverse urban factors into a unified framework for evaluating safety outcomes in Chicago. By doing so, it enables a data-driven determination of optimal conditions and locations where residents are statistically most likely to experience safer living environments.

Our Solution: Integration and Visualization

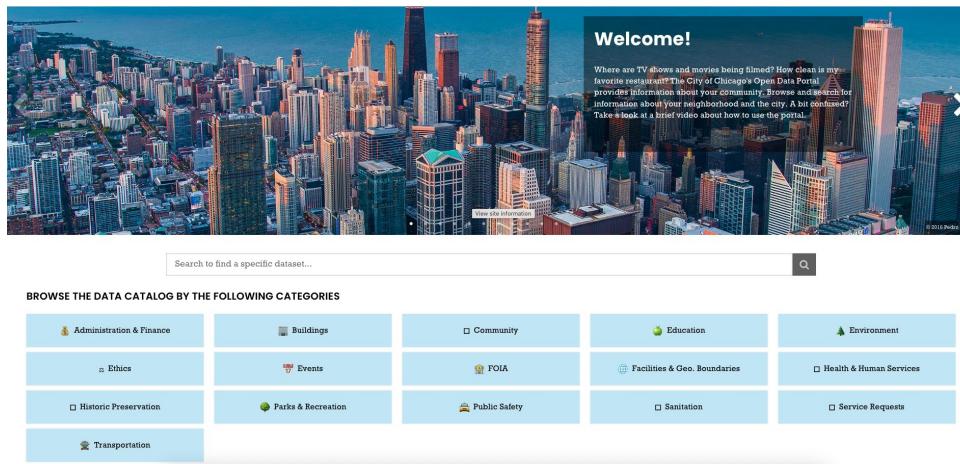
- Our solution combines crime data, demographics, business activity, weather patterns, and access to public resources to assess neighborhood safety and personal well-being. This enables the identification of areas that support safer living conditions and stronger community stability.
- Additionally, this framework can inform where public resources should be allocated, highlight neighborhoods with strong business potential, and support data-driven planning for community development and investment decisions.

2. Data Sources



Data Sources

- The City of Chicago Data Portal is an open-data platform that provides free public access to hundreds of city datasets, including crime, transportation, public safety, and government operations.
- Data is available in multiple machine-readable formats, including CSV, JSON, and API endpoints.



Data Sources

- Weather information was collected from NOAA's National Centers for Environmental Information (NCEI), where historical temperature, precipitation, and snowfall data for the Chicago O'Hare region in 2025 was retrieved.



3. EDA, Data Modeling & Methodology



Data Description

Primary Dataset

- Crimes dataset: 2001 to present, containing approximately 8.4 million records (latest update: November 8, 2025).
- Contains incident-level crime data, including attributes such as crime type/description, location, date, and time.

Supporting Dataset

- IUCR Codes
- Ward Offices
- Police Station Locations
- Community Area
- Weather
- Business Licenses
- License Codes
- Demographics

Missing values per column in crimes table:		
	missing_count	missing_percent
ID	0	0.000000
Case Number	0	0.000000
Date	0	0.000000
Block	0	0.000000
IUCR	0	0.000000
Primary Type	0	0.000000
Description	0	0.000000
Location Description	834	0.408601
Arrest	0	0.000000
Domestic	0	0.000000
Beat	0	0.000000
District	0	0.000000
Ward	1	0.000490
Community Area	1	0.000490
FBI Code	0	0.000000
X Coordinate	89	0.043604
Y Coordinate	89	0.043604
Year	0	0.000000
Updated On	0	0.000000
Latitude	89	0.043604
Longitude	89	0.043604
Location	89	0.043604

Normalization and Assumptions

Normalization/Data Cleaning:

- Ensured no composite attributes, especially with names and addresses
- Ensured no partial dependencies and removed transitive dependencies
- Renamed table columns to follow consistent naming conventions (lowercase, underscores, no spaces).
- Filtered dataset to include only 2025 data.
- Removed unnecessary columns, such as fax and year (since we know it's 2025 only).
- Removed redundant information from the crimes table that is already explained in the other supporting tables
- Corrected malformed CSV rows and removed formatting issues before loading.
- Standardized boolean fields (arrest, domestic) to consistent values.

WARD	ALDERMAN	ADDRESS
1	La Spata, Daniel	1958 North Milwaukee Avenue
2	Hopkins, Brian	121 North LaSalle Street, Room 300

Before



ward_id	alderman_first_name	alderman_last_name	address	address_2
1	Daniel	La Spata	1958 North Milwaukee Avenue	
2	Brian	Hopkins	121 North LaSalle Street	Room 300

After

Assumptions:

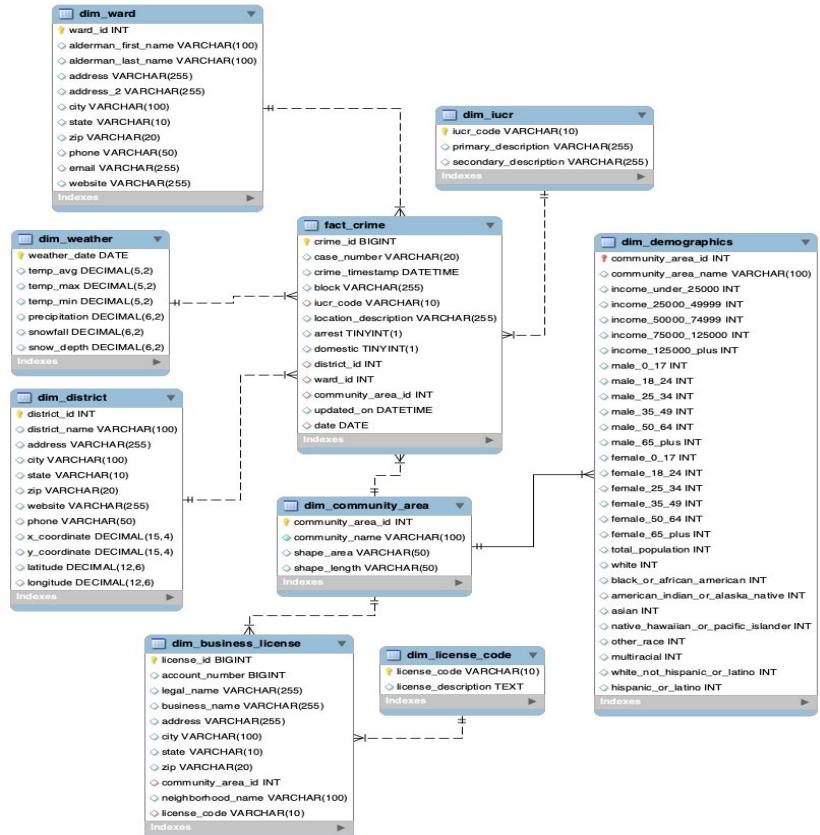
- District, ward, IUCR codes, and community data does not change over time
- Each dimension (e.g., dim_ward) has a unique key (ward_id) and stores attributes that depend only on it.
- Dimension tables are small and relatively static, while the fact table grows over time.

Data Description

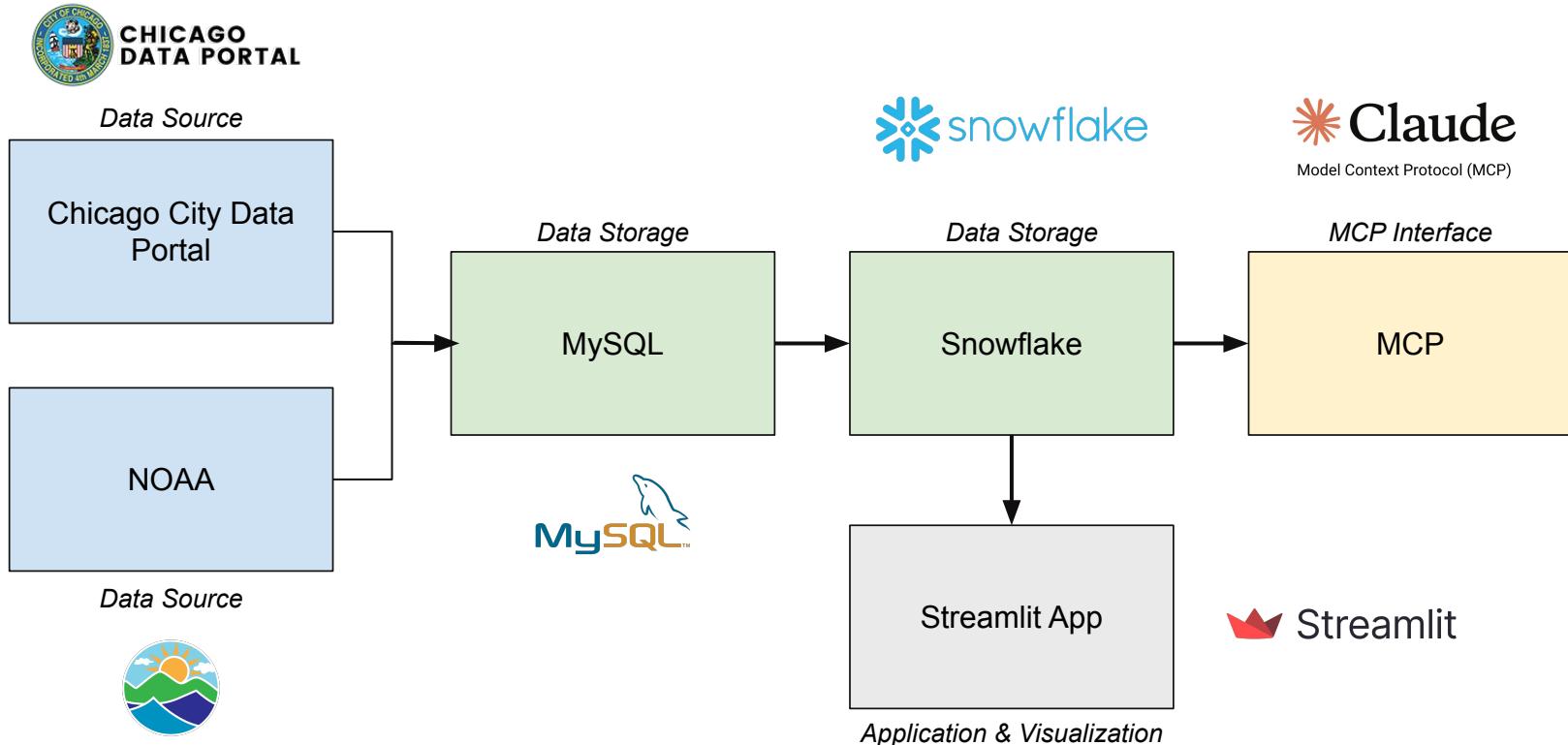
Table	Type	Rows	Columns	Description
crime	Fact	195,259	13	Crime incidents
community_area	Dimension	77	4	Community area info
demographics	Dimension	77	29	Population & income
district	Dimension	23	12	Police district info
iucr	Dimension	410	3	Crime classification
license_codes	Dimension	150	2	License category codes
ward	Dimension	50	11	Political wards
weather	Dimension	312	7	Daily weather records
business_licenses	Dimension	49,327	11	Active business licenses

EER Diagram

- `fact_crime` – Captures individual crime events
- `dim_community_area` – Identifies Chicago neighborhoods for grouping analysis.
- `dim_district` – Represents police districts for jurisdiction-level insights
- `dim_ward` – Provides ward boundaries and alderman contact details.
- `dim_lucr` – Maps IUCR crime codes to descriptive crime categories.
- `dim_weather` – Stores daily temperature, precipitation, and snowfall.
- `dim_demographics` – Shows income and population characteristics by area.
- `dim_business_license` – Lists licensed businesses tied to locations.
- `dim_license_code` – Contains business license types and descriptions.



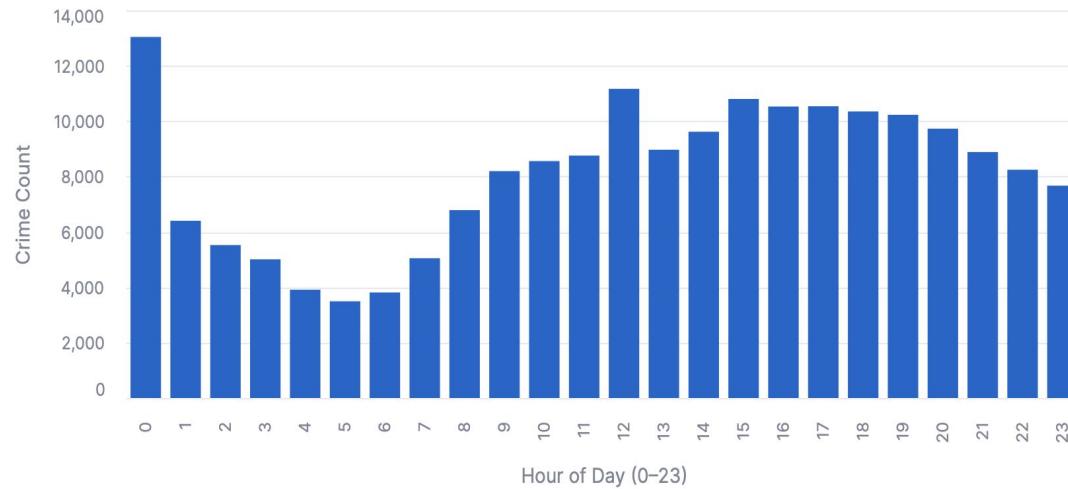
Data and Analytics Pipeline



Timing Matters: Hour-by-Hour Crime Patterns

Source: CHICAGO_DW.PUBLIC — Fact: CRIME | Dimensions: 8 supporting tables

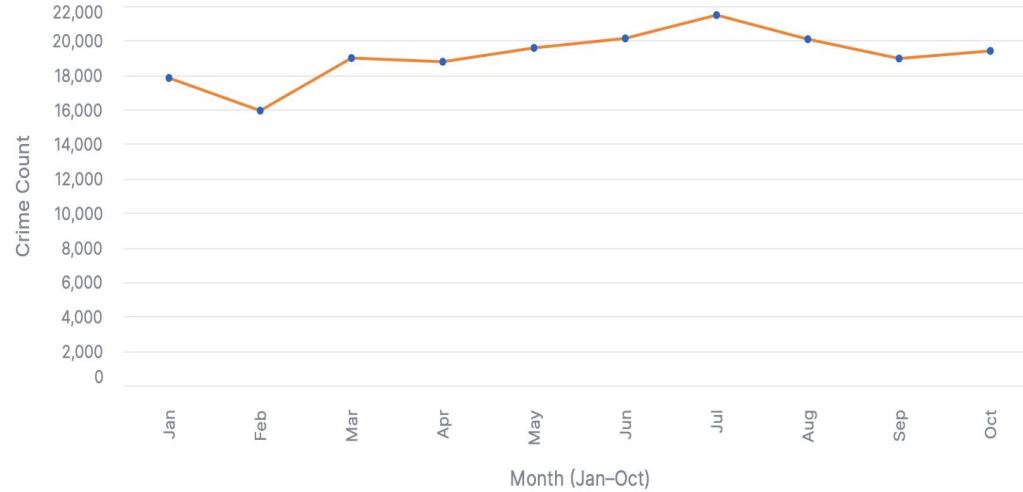
1 Crime by Hour of the Day



◆ Evening hours (18:00–23:00) typically show higher incident counts.

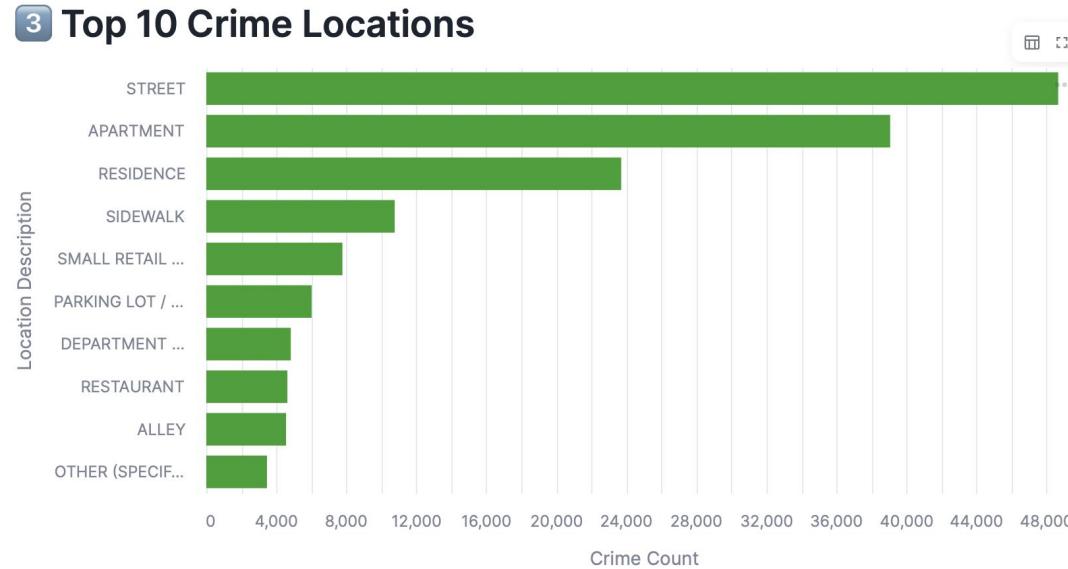
A Year in Crime: Monthly Trend Patterns

2 Crime by Month (Cut-off: October)



◆ Crimes over time (January to October). Trend reflects true chronological order.

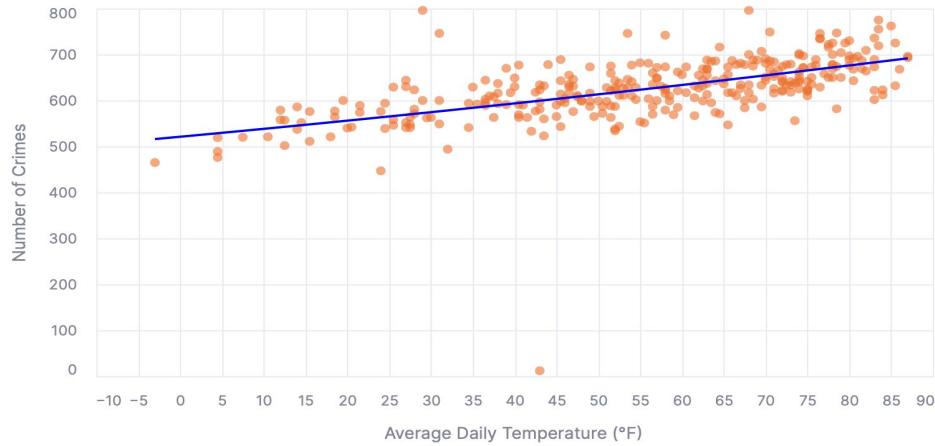
Where Crime Happens Most



◆ Most frequent crime locations such as STREET, RESIDENCE, and APARTMENT.

Environmental Effects on Crime: Temperature Correlation

4 Daily Crime by Temperature (2025 Dates)

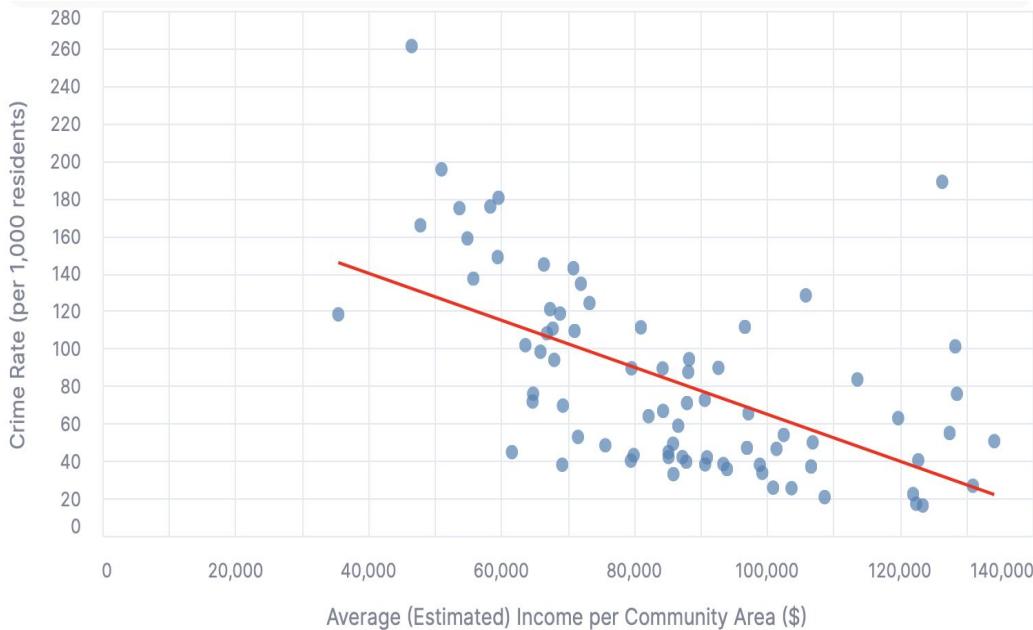


Temperature–Crime Correlation

0.59

Does Money Buy Safety? Income vs Crime Rate

5 Income vs Crime Rate by Community Area



Moderate Negative Correlation

-0.57

Income vs Crime Rate

Higher-income areas experience noticeably fewer crimes per capita, though some mid-income neighborhoods remain variable.

4. Insights



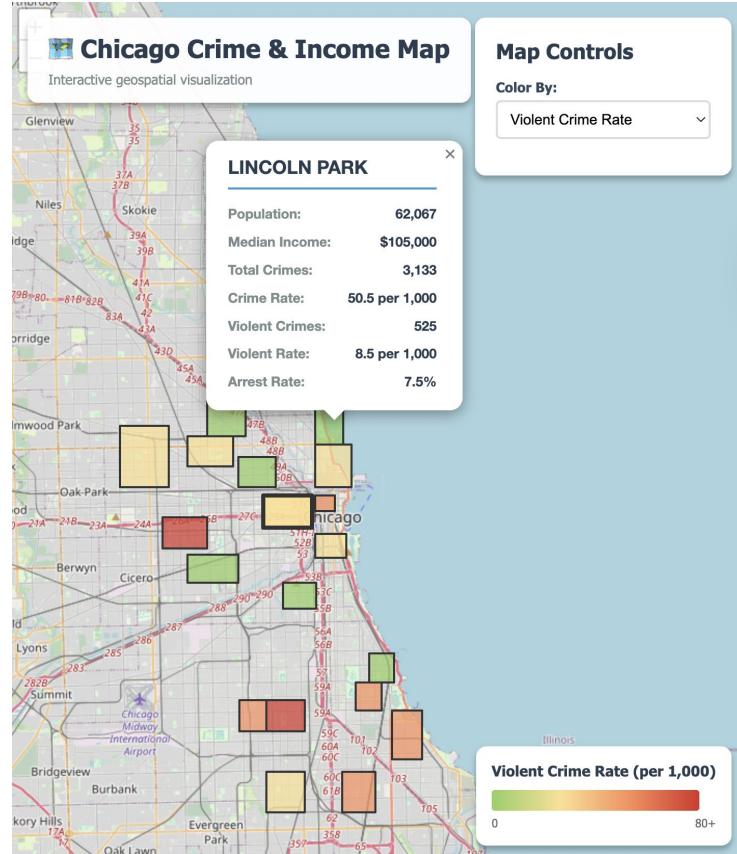
Interactive Geospatial Map

What We Built:

- Interactive, real-world geospatial map of Chicago using Leaflet + MCP
- Uses true latitude/longitude boundaries for 22 Chicago community areas
- Google-Maps-style navigation: zoom, pan, and neighborhood overlays

Data Layers Analyzed:

- Median household income - identifies high and low-resource areas
- Crime rate per 1,000 residents - highlights community safety dynamics
- Violent Crime Rate - measures severity, not just frequency
- Arrest Rate (%) - shows policing activity and deterrence patterns



Interactive Map

Chicago's Safest Neighborhood

J Where in Chicago can you walk around without looking over your shoulder every 3 seconds?

EDISON PARK

The Stats:

- **195 crimes ALL YEAR**
- **0.6 crimes per day** (one every 40 hours)
- **50x safer than the worst neighborhood**

What this means:

You'd have to stand in one spot for **40 straight hours** before a crime even happens nearby.

You could literally fall asleep standing up in the middle of the street and wake up to someone asking if you need a pillow.

The biggest crime in Edison Park is probably someone returning a library book 2 days late.



Chicago's Most Dangerous Neighborhood

J

Where is the worst possible place to be if you value your wallet and your kneecaps?

AUSTIN, CHICAGO



The Stats:

- 9,845 crimes ALL YEAR
- 29.4 crimes per day (one crime every 49 minutes)
- Most dangerous place in Chicago

What this means:

You could order a pizza, and by the time it arrives, **two crimes already happened**.

You could stop at a red light and witness **three separate felonies** before it turns green.

The only thing you should be doing in Austin is **leaving Austin**.



Chicago's Safest vs. Highest-Crime Communities

Top 10 Highest Crime Communities

Rank	Community	Total Crimes	Arrest Rate	Domestic Rate
1	Austin	9,845	22.10%	27.94%
2	Near North Side	9,257	14.58%	6.81%
3	Near West Side	8,382	11.83%	11.15%
4	Loop	7,228	21.11%	3.89%
5	South Shore	6,696	13.47%	29.05%
6	North Lawndale	5,473	30.68%	24.06%
7	West Town	5,425	9.49%	8.42%
8	Humboldt Park	5,162	33.40%	18.89%
9	Auburn Gresham	5,136	12.97%	30.65%
10	Greater Grand Crossing	5,102	17.72%	28.95%

Top 10 Safest Communities

Rank	Community	Total Crimes	Arrest Rate	Domestic Rate
1	Edison Park	195	8.72%	18.46%
2	Burnside	210	10.95%	26.19%
3	Forest Glen	319	8.78%	19.12%
4	Mount Greenwood	425	7.06%	27.06%
5	Montclare	526	9.89%	22.62%
6	Fuller Park	571	21.02%	15.94%
7	Hegewisch	630	6.51%	21.90%
8	Oakland	650	10.31%	22.46%
9	Jefferson Park	685	17.23%	17.66%
10	McKinley Park	756	16.80%	15.87%

Data Analysis With Crime Database

A What are some key insights you can derive from the crime_db database

1. Business Density Paradox: Commercial Activity ≠ Crime

The Loop has **3,602 businesses** (nearly 2x more than #2) yet ranks 4th in total crimes (7,228). Meanwhile, Austin has far fewer businesses (933) but is #1 in crime (9,845). Business concentration alone doesn't drive crime - residential socioeconomic factors matter more.

2. Arrest Rate Crisis: Only 16.5% of Crimes Solved

Out of 195,259 crimes, only 32,306 arrests were made. This means **5 out of 6 offenders face no consequences**, suggesting severe resource constraints or case complexity issues.

3. Geographic Inequality is Extreme (50x Spread)

Crime ranges from Edison Park (195 crimes) to Austin (9,845 crimes) - a **50-fold difference**. The top 10 community areas account for a disproportionate share of Chicago's crime burden.

4. Commercial vs Residential Areas Have Completely Different Crime Problems

Commercial areas experience **double the theft rate** (35% vs 17%)—shoplifting and retail crime—while residential neighborhoods face more **violent interpersonal crime**: higher battery (20% vs 14%), weapons violations (3% vs 1.5%), car thefts, and all homicides. Downtown needs theft prevention; neighborhoods need violence intervention.

5. Residential Crime Dominates: Streets + Homes = 57% of All Crime

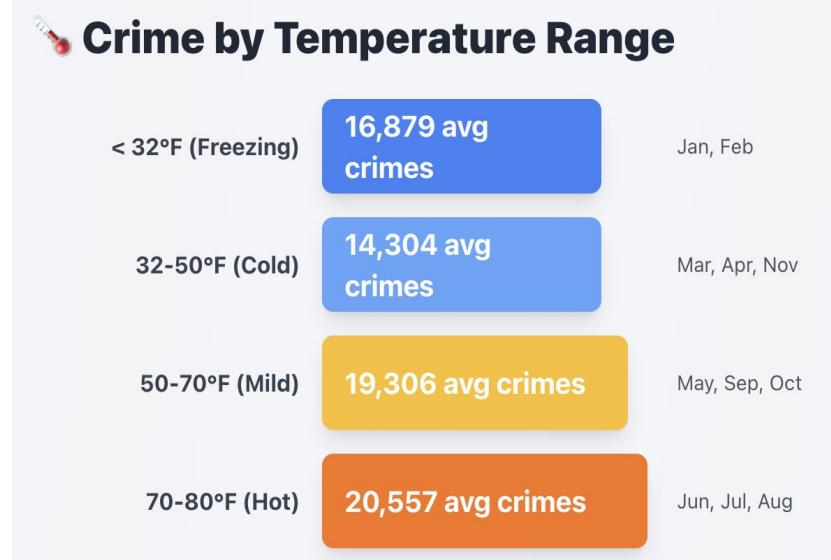
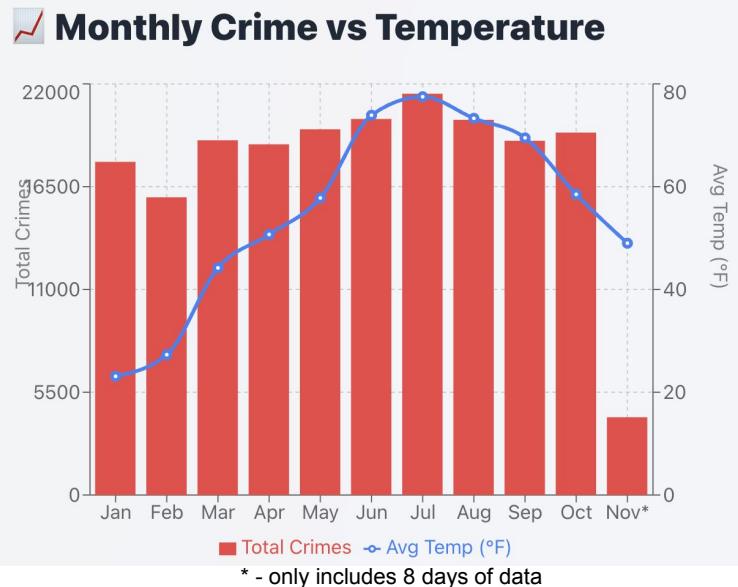
Despite business correlations, most crime occurs in residential settings: streets (25%), apartments (20%), residences (12%). Alleys and sidewalks add another 8%, making neighborhoods—not businesses—the primary crime battleground.

6. Predictable Seasonal Pattern: Summer +35% Crime Spike

Crime surges from February (15,931) to July peak (21,473)—a 35% increase. Combined with midnight being the highest-crime hour across all months, this creates **predictable hot spots in time** that could guide resource allocation.

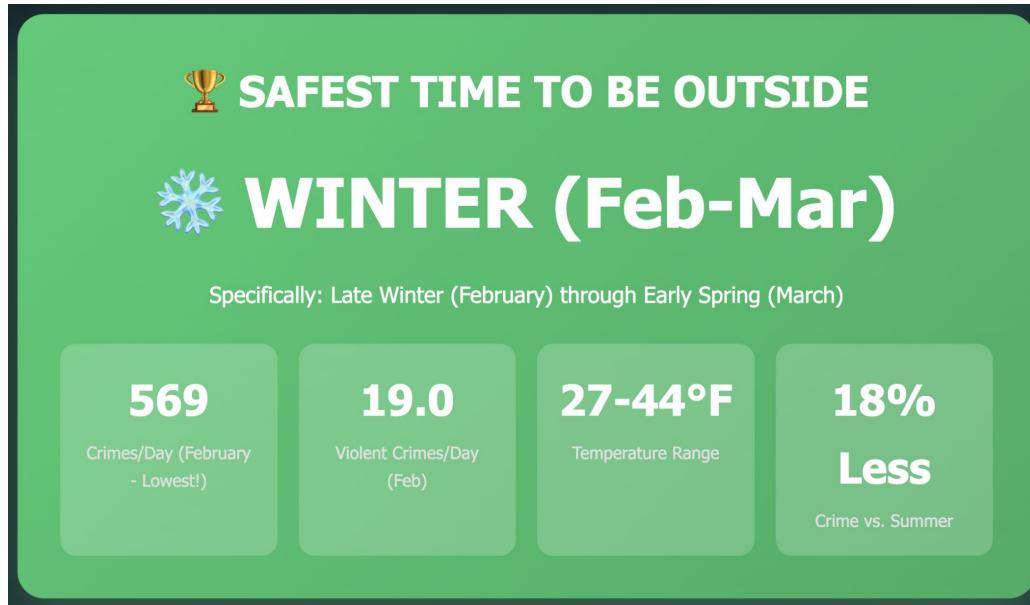
The Safest Season to Leave Your House

J During which weather/seasonal conditions is being outside safest?



The Safest Season to Leave Your House

J During which weather/seasonal conditions is being outside safest?



Chicago Safest Picks

J

Using crime severity, median income distribution, access to essential businesses (like grocery, gas, medical), typical weather conditions, and police availability, what are the top 3 Chicago community areas with the highest likelihood of safety and survivability? Return a ranked output with an overall score and explanations for each area

Rank 1: NORTH CENTER

Overall Safety Score: 76.91/100

Key Metrics

- **Population:** 35,782
- **Crime Rate:** 26.69 per 1,000 residents (2nd lowest in city)
- **Violent Crime Rate:** 0.70 per 1,000 (exceptionally low)
- **Estimated Median Income:** \$131,004
- **High-Income Households:** 88.32%

Rank 2: LINCOLN PARK

Overall Safety Score: 76.66/100

Key Metrics

- **Population:** 62,067 (larger, more urban)
- **Crime Rate:** 50.48 per 1,000 residents
- **Violent Crime Rate:** 1.21 per 1,000 (very low)
- **Estimated Median Income:** \$134,223 (highest in city)
- **High-Income Households:** 90.71%

Rank 3: FOREST GLEN

Overall Safety Score: 75.83/100

Key Metrics

- **Population:** 19,763 (smallest of top 3)
- **Crime Rate:** 16.14 per 1,000 residents (LOWEST in Chicago)
- **Violent Crime Rate:** 0.20 per 1,000 (near-zero)
- **Estimated Median Income:** \$123,465
- **High-Income Households:** 83.72%

Edison Park is **THE safest** (zero violent crime!), but for overall "good life" survivability, you need easy access to essentials. Edison Park requires more driving/travel for daily needs, which lowered its overall score slightly despite being statistically the safest for crime.

Chicago Safest Picks

J

Using crime severity, median income distribution, access to essential businesses (like grocery, gas, medical), typical weather conditions, and police availability, what are the top 3 Chicago community areas with the highest likelihood of safety and survivability? Return a ranked output with an overall score and explanations for each area

Metric	North Center	Lincoln Park	Forest Glen
Overall Score	76.91	76.66	75.83
Crime Rate	26.69	50.48	16.14 ★
Violent Crime Rate	0.70	1.21	0.20 ★
Median Income	\$131,004	\$134,223 ★	\$123,465
Grocery Access	180 stores	421 stores ★	42 stores
Total Businesses	801	1,577 ★	251
Police Districts	1	2 ★	2 ★
Character	Urban-residential	Dense urban	Suburban-residential

★ = Best in category

Final Recommendations

Choose North Center if: You want the optimal balance of exceptional safety (2nd lowest crime rate), very high income, and reasonable access to urban amenities in a family-friendly neighborhood.

Choose Lincoln Park if: You prioritize the highest income area with maximum business/service access, can tolerate slightly higher (but still low) property crime from urban density, and want the most walkable lifestyle.

Choose Forest Glen if: Absolute crime safety is your #1 priority and you're willing to sacrifice some convenience of walkable services for the quietest, safest residential experience in Chicago (lowest crime rate citywide).

Chicago Safest Picks

J Using crime severity, median income distribution, access to essential businesses (like grocery, gas, medical), typical weather conditions, and police availability, what are the top 3 Chicago community areas with the highest likelihood of safety and survivability? Return a ranked output with an overall score and explanations for each area

THE WINNER FOR SURVIVAL & GOOD LIFE NORTH CENTER

"The Perfect Balance of Safety & Urban Living"

76.91

Overall Score

0.70

Violent Crimes per 1,000

26.69

Total Crimes per 1,000

\$131K

Median Income

180

Grocery Stores

801

Total Businesses



Appendix

References

Lee, Adrian. "Unlocking AI Potential: Connecting Snowflake to Claude with MCP in Cursor." Medium (2024). <https://adrianleexinhan.medium.com/unlocking-ai-potential-connecting-snowflake-to-claude-with-mcp-in-cursor-034fa7b9a783>

Data Sources

City of Chicago Department of Innovation & Technology. (n.d.). Business Licenses – Current Active [Data set]. City of Chicago Data Portal. <https://data.cityofchicago.org/Community-Economic-Development/Business-Licenses-Current-Active/uupf-x98q>

City of Chicago Department of Innovation & Technology. (n.d.). Crimes – 2001 to Present [Data set]. City of Chicago Data Portal. <https://data.cityofchicago.org/Public-Safety/Crimes-2001-to-Present/ijzp-q8t2>

National Oceanic and Atmospheric Administration, National Centers for Environmental Information. (n.d.). Weather station data for bounding box 42.035465, -88.024209, 41.535465, -87.524209 [Data set]. <https://www.ncei.noaa.gov/access/past-weather/42.035465,-88.024209,41.535465,-87.524209>

City of Chicago Department of Innovation & Technology. (n.d.). Boundaries – Community Areas [Data set]. City of Chicago Data Portal. <https://data.cityofchicago.org/Facilities-Geographic-Boundaries/Boundaries-Community-Areas/igwz-8jzy>

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City of Chicago Department of Innovation & Technology. (n.d.). Ward Offices [Data set]. City of Chicago Data Portal. <https://data.cityofchicago.org/Facilities-Geographic-Boundaries/Ward-Offices/htai-wnw4>

City of Chicago Department of Innovation & Technology. (n.d.). Police Stations [Data set]. City of Chicago Data Portal. <https://data.cityofchicago.org/Public-Safety/Police-Stations/z8bn-74gv>

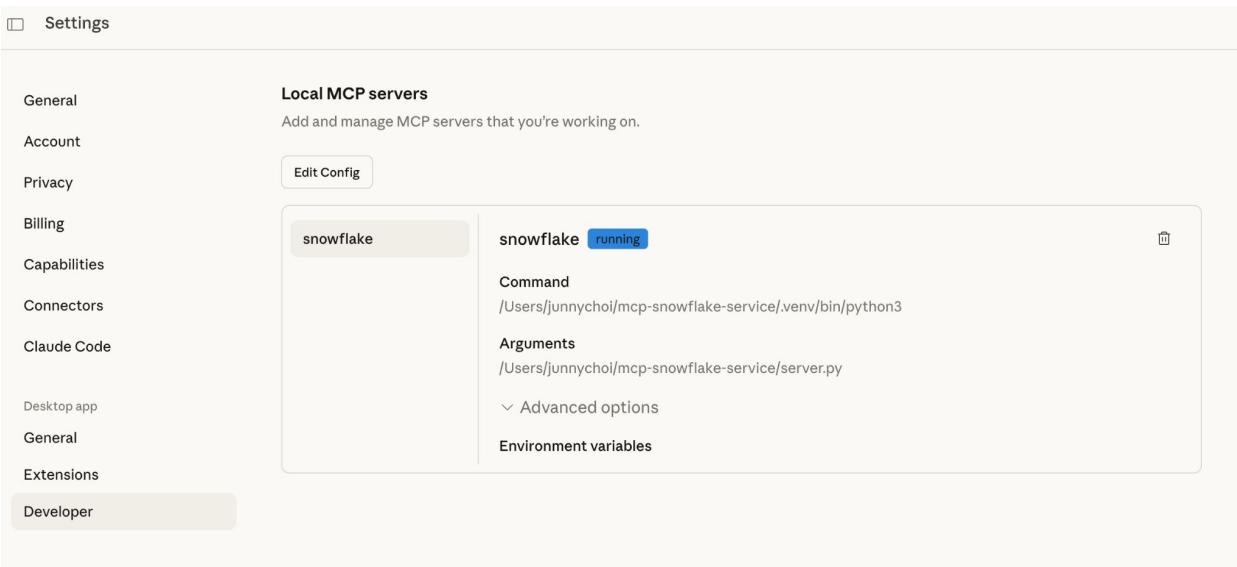
City of Chicago Department of Innovation & Technology. (n.d.). Business Licenses [Data set]. City of Chicago Data Portal. <https://data.cityofchicago.org/Community-Economic-Development/Business-Licenses/r5kz-chrr>

Appendix - More Insights

Top 15 Crime Categories

Rank	Crime Type	Count	% of Total	Arrest Rate
1	Theft	42,263	21.64%	9.71%
2	Battery	36,885	18.89%	18.36%
3	Criminal Damage	22,560	11.55%	4.26%
4	Assault	18,786	9.62%	12.16%
5	Motor Vehicle Theft	14,650	7.50%	3.16%
6	Other Offense	14,459	7.41%	20.56%
7	Deceptive Practice	11,895	6.09%	3.13%
8	Narcotics	6,573	3.37%	94.78%
9	Burglary	5,336	2.73%	5.77%
10	Robbery	5,125	2.62%	8.31%
11	Weapons Violation	4,923	2.52%	77.82%
12	Criminal Trespass	4,550	2.33%	31.32%
13	Criminal Sexual Assault	1,413	0.72%	2.41%
14	Offense Involving Children	1,332	0.68%	6.08%
15	Public Peace Violation	853	0.44%	54.04%

Appendix - MCP Server Running

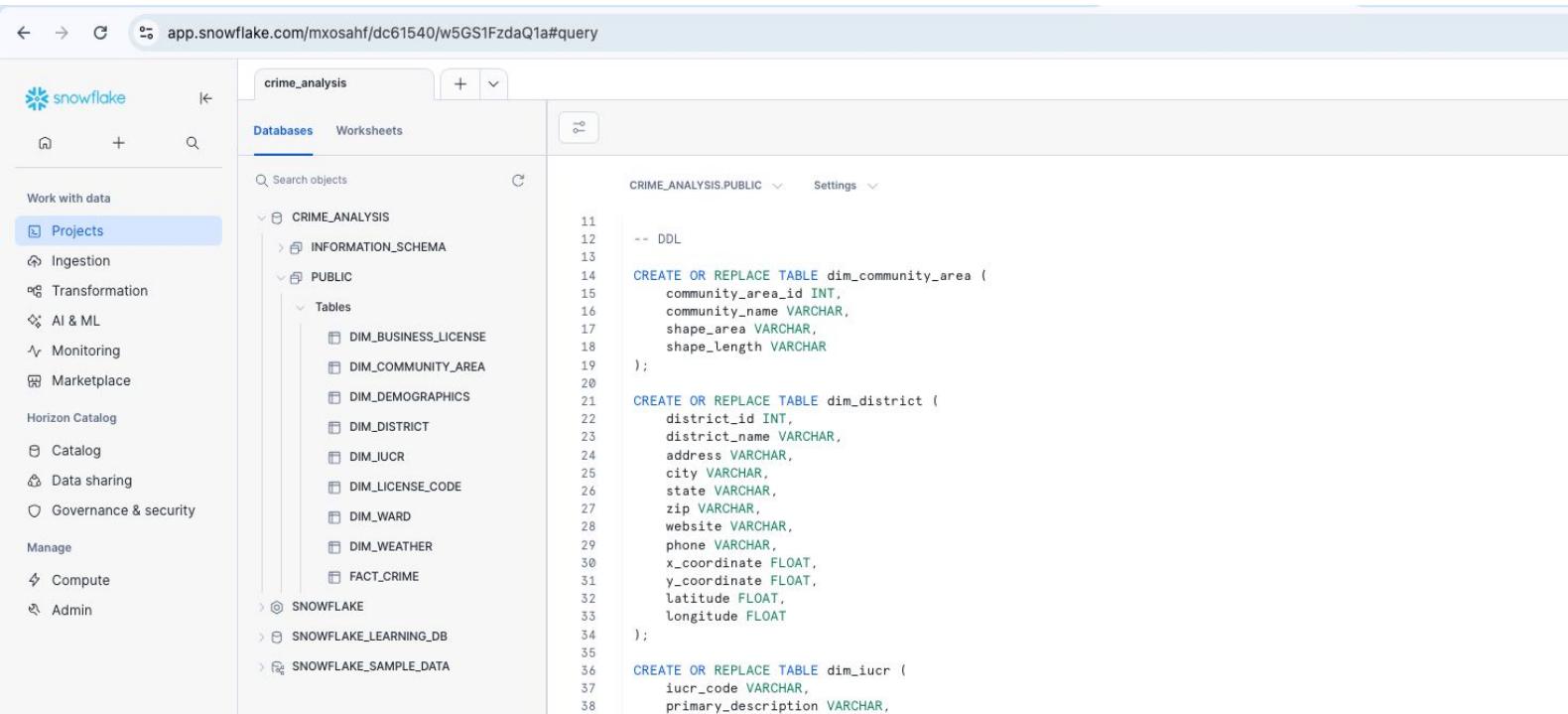


The screenshot shows the MCP Settings interface. On the left, a sidebar lists various settings categories: General, Account, Privacy, Billing, Capabilities, Connectors, Claude Code, Desktop app, General, Extensions, and Developer. The 'Developer' category is currently selected, indicated by a highlighted background. In the main content area, under 'Local MCP servers', there is a list with one item: 'snowflake' (status: running). The 'snowflake' entry includes a 'Edit Config' button. Below the entry, there are sections for 'Command' (set to '/Users/junnychoi/mcp-snowflake-service/.venv/bin/python3') and 'Arguments' (set to '/Users/junnychoi/mcp-snowflake-service/server.py'). There are also 'Advanced options' and 'Environment variables' sections, both currently collapsed.

Based on instructions from:

<https://adrianleexinhan.medium.com/unlocking-ai-potential-connecting-snowflake-to-claude-with-mcp-in-cursor-034fa7b9a783>

Appendix - Database in Snowflake



app.snowflake.com/mxosahf/dc61540/w5GS1FzdaQ1a#query

crime_analysis

Databases Worksheets

Search objects

CRIME_ANALYSIS.PUBLIC Settings

11 -- DDL

12

13

14 CREATE OR REPLACE TABLE dim_community_area (

15 community_area_id INT,

16 community_name VARCHAR,

17 shape_area VARCHAR,

18 shape_length VARCHAR

19);

20

21 CREATE OR REPLACE TABLE dim_district (

22 district_id INT,

23 district_name VARCHAR,

24 address VARCHAR,

25 city VARCHAR,

26 state VARCHAR,

27 zip VARCHAR,

28 website VARCHAR,

29 phone VARCHAR,

30 x_coordinate FLOAT,

31 y_coordinate FLOAT,

32 latitude FLOAT,

33 longitude FLOAT

34);

35

36 CREATE OR REPLACE TABLE dim_iucr (

37 iucr_code VARCHAR,

38 primary_description VARCHAR,

Appendix - Crime Table Normalization

Column	Description	
<code>id</code>	Unique identifier for each crime record.	
<code>case_number</code>	Police case/incident number.	
<code>crime_timestamp</code>	Date and time the incident occurred.	
<code>date</code>	Date the incident occurred	
<code>block</code>	Approximate address or block of the incident.	
<code>iucr</code>	Illinois Uniform Crime Reporting code.	
<code>primary_type</code>	Main crime category.	
<code>description</code>	Detailed crime type.	
<code>location_description</code>	Type of location where crime occurred.	
<code>arrest</code>	Whether an arrest was made (TRUE/FALSE).	
<code>domestic</code>	Whether incident was domestic-related.	

Both `primary_type` and `description` were removed, as they are part of the IUCR table

Appendix - Crime Table Normalization

Column	Description	
beat	Police beat where the crime occurred.	
district	Police district number.	
ward	Chicago political ward number.	
community_area	Community area ID.	
fbi_code	FBI offense code.	
year	Year of occurrence.	
updated_on	Last updated timestamp.	
x_coordinate	Chicago x-coordinate location.	
y_coordinate	Chicago y-coordinate location.	
latitude	Geographic latitude.	
longitude	Geographic longitude.	
location	Combined lat/lon (POINT format).	

No supporting datasets were available for FBI code descriptions or beat descriptions, so these fields were removed

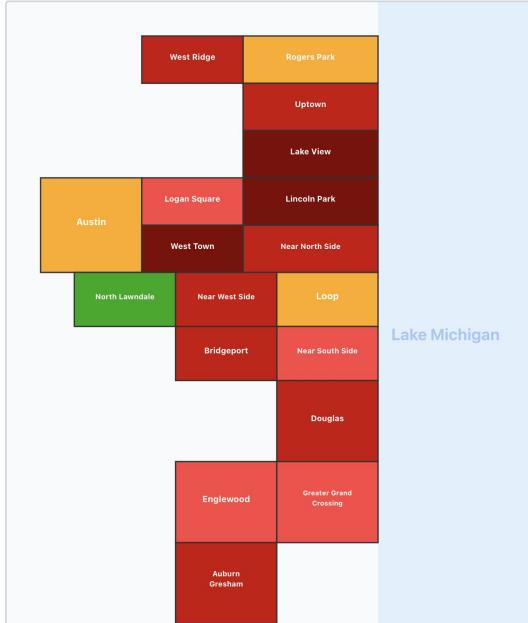
Removed the year column because the dataset was filtered to only 2025 crime records.

Removed last five columns (from x_coordinate to location). This data is already stored in the district table.

Geo-Map

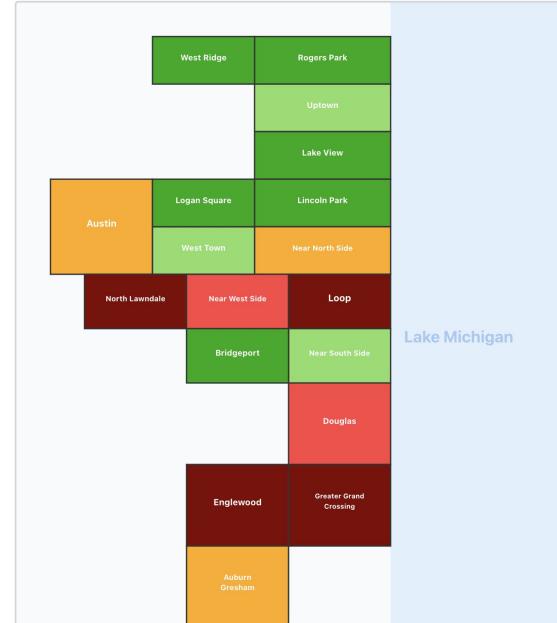
Arrest Rate Percentage

Legend: Low → High Income/Arrests



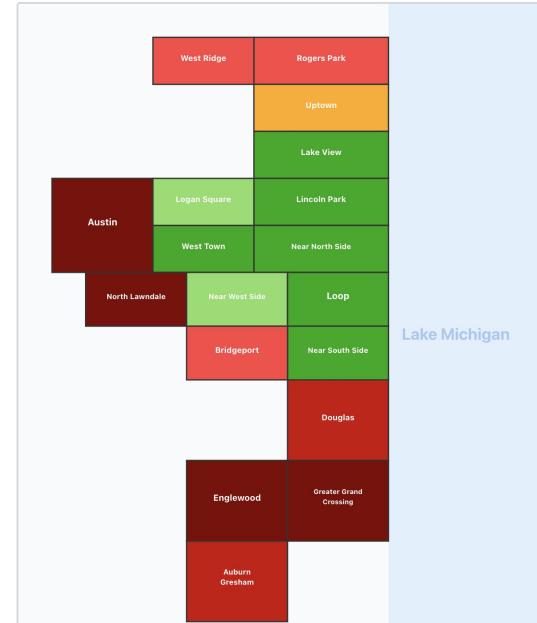
Crime Rate per 1,000 Residents

Legend: Low → High Crime



Median Household Income

Legend: Low → High Income/Arrests



Where Should You Open a Business?

J Which Chicago neighborhoods offer the best opportunity to open a new business — meaning low crime, low competition, and strong economic activity?

1. NORTH CENTER ★ Best Overall

- **Crime Rate:** 1.19 crimes per business (lowest among active areas)
- **Competition:** 801 businesses, 32 different types
- **Safety:** Only 955 total crimes annually
- **Economic Activity:** High - thriving commercial district
- **Why it's great:** Safest high-activity neighborhood. Strong retail (177 food establishments) and diverse business mix. Affluent residential area with consistent foot traffic.

3. JEFFERSON PARK

- **Crime Rate:** 1.69 crimes per business
- **Competition:** 405 businesses, 23 types
- **Safety:** 685 crimes annually
- **Economic Activity:** Moderate - steady growth
- **Why it's great:** Good balance of safety and activity. Strong manufacturing base (21 businesses) suggests industrial/service opportunities.

2. FOREST GLEN 🌳 Hidden Gem

- **Crime Rate:** 1.27 crimes per business
- **Competition:** 251 businesses, 21 types (low competition)
- **Safety:** Only 319 crimes annually (2nd safest overall)
- **Economic Activity:** Emerging market
- **Why it's great:** Extremely safe, low competition, growing area. Perfect for first-time business owners.

4. IRVING PARK 🏠 Strong Market

- **Crime Rate:** 1.92 crimes per business
- **Competition:** 937 businesses, 32 types (high diversity)
- **Safety:** 1,799 crimes (manageable for size)
- **Economic Activity:** High - established commercial hub
- **Why it's great:** Large, diverse market. 186 food establishments suggest restaurant saturation, but room for specialty retail/services.

Best Neighborhoods to Live In—Based on Your Lifestyle

J

Based on all available information from my database, what are the best Chicago neighborhoods to live in for families, students, young professionals, and retirees? Provide the top pick for each group and explain why

Quick Comparison

Demographic	Best Area	Score	Crime Rate/1k	Median Income	Key Advantage
 Families	North Center	75.32	26.69 ✓	\$131,004	Safest + Family-Friendly
 Students	Brighton Park	70.57	37.89 ✓	\$69,208	Most Affordable + Safe
 Young Professionals	Near North Side	127.25	101.02 ▲	\$128,350	Career Hub + Nightlife
 Retirees	Forest Glen	73.91	16.14 ✓	\$123,465	Safest + Peaceful Living

Best Neighborhoods to Live In—Based on Your Lifestyle

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Based on all available information from my database, what are the best Chicago neighborhoods to live in for families, students, young professionals, and retirees? Provide the top pick for each group and explain why

Why North Center is Perfect for Families:

- ✓ **Exceptional Safety:** 2nd lowest crime rate in Chicago (26.69 per 1k)
- ✓ **Near-Zero Violence:** Only 0.70 violent crimes per 1,000 - kids can play outside safely
- ✓ **Family-Oriented:** 26% of population are children - lots of playmates
- ✓ **Excellent Schools:** High-income area (\$131K) funds great public schools
- ✓ **Urban Convenience:** 801 businesses including 180 grocery stores
- ✓ **Stable Community:** High homeownership, established families, low turnover
- ✓ **Parks & Recreation:** Safe streets for biking, walking to school

Cost of Living:

High median income (\$131K) means housing is expensive. Budget accordingly - you're paying for safety and quality of life.

Why Brighton Park is Perfect for Students:

- ✓ **Most Affordable:** \$69K median income = lower rent than wealthy areas
- ✓ **Safe Enough:** 37.89 crime rate is low enough to walk at night safely
- ✓ **Low Violent Crime:** 1.06 per 1,000 means personal safety is good
- ✓ **Young Demographics:** 36.7% are youth (18-24) - lots of peers
- ✓ **Diverse Community:** Multicultural, welcoming to different backgrounds
- ✓ **Public Transit:** Good CTA access to universities and downtown
- ✓ **Local Amenities:** 592 businesses including 139 grocery stores

Best For:

College/grad students who need affordability but won't sacrifice safety. Not as trendy as Loop or Lake View, but much better value.

Why Near North Side is Perfect for Professionals:

- ✓ **Career Central:** 34.3% are young professionals (25-34) - highest in Chicago
- ✓ **Downtown Adjacent:** Walk to work in Loop, near corporate offices
- ✓ **Maximum Amenities:** 4,225 businesses including 283 entertainment venues
- ✓ **Incredible Nightlife:** Bars, restaurants, clubs all walking distance
- ✓ **High Incomes:** \$128K median - successful career professionals
- ✓ **Networking Hub:** Meet other ambitious professionals everywhere
- ✓ **Walkable Lifestyle:** 46.11 businesses per 1,000 residents - everything nearby

Safety Trade-Off:

Higher crime (101 per 1k) and violent crime (3.86 per 1k) is the price of urban density. Heavy police presence and 24/7 activity mitigate risk. Worth it for career-focused professionals who value location and lifestyle over absolute safety.

Why Forest Glen is Perfect for Retirees:

- ✓ **Absolute Safest:** Lowest crime rate in Chicago (16.14 per 1,000)
- ✓ **Near-Zero Violence:** Only 0.20 violent crimes per 1,000 - walk anytime safely
- ✓ **Peaceful & Quiet:** Residential, suburban feel without urban noise
- ✓ **High Senior Population:** 18.2% are 65+ - community of peers
- ✓ **Affluent & Stable:** \$123K median income = well-maintained, safe area
- ✓ **Parks & Nature:** Green spaces, quiet streets perfect for walks
- ✓ **Low Stress Living:** Relaxed pace ideal for retirement years

Alternative for Urban-Loving Retirees:

Consider **Near North Side** if you want walkable urban lifestyle with museums, theaters, and restaurants. Forest Glen requires a car for errands but offers maximum safety and peace. Choose based on lifestyle preference: quiet suburbs vs. active city living.

Geospatial Map - MCP Prompts

Generate a Tableau-like geographic visualization of Chicago using community area boundaries. For each community area, shade the polygon based on median household income, using a gradient from low to high income. Overlay crime statistics (crime count, crime rate per 1,000 residents, or violent crime %), displayed either as labels or a secondary shading layer. Add an interactive legend, tooltips showing income + crime values, and ensure every Chicago neighborhood is clearly plotted on the map



like an actual geospatial interactive map, don't ahve to include all neighborhoods but include some