# Title

An Analysis of Crimes in the Chicago from 2001 – 2023

# Authors

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# Objectives and Contributions

Our objectives for this project are to analyze the crimes committed in the city of Chicago from the year 2001 to 2023 and to perform clustering on that data in relation to the police precincts in the city. Cluster points are located on the police station. The primary crime types will also be color-coded. The idea is to get a visual sense of where crimes are being committed and which if a police precinct is equipped to handle the crime.

# Work Completed

1. Mario
2. For our project, we are utilizing two datasets, the Crimes – 2001 to Present dataset and the Police Stations dataset from the City of Chicago website. We added the Police Station dataset to our data in order to provide locations of police stations as cluster points. For the datasets themselves, we manipulated the Crimes dataset from its original layout by reducing columns that were not needed for this project.
3. Julissa
4. Julissa
5. Our application is a web-based system that relies on the programming language Python and its data science libraries (scikit-learn, numpy, matplotlib) to perform the clustering actions. While matplotlib is a powerful visualization tool, we chose to utilize the power of D3, a Javascript library, to overlay our data on a map. All of these are open source tools and they are aquiried from their respective sites.
6. Julissa

# Work to be Done

# References

https://data.cityofchicago.org/Public-Safety/Police-Stations/z8bn-74gv

https://data.cityofchicago.org/Public-Safety/Crimes-2001-to-Present/ijzp-q8t2