

A background image showing two Toronto Police officers in uniform. The officer on the left is a man with a mustache, and the officer on the right is a woman. Both are wearing dark blue uniforms with red bands on their caps and are smiling. They are standing in front of a brick building with windows. The image is slightly faded to allow the text to be prominent.

Toronto Police Data

DATA ANALYSIS OF TORONTO POLICE DATA

Data

- The data for the project was taken from Toronto Police Website. The data is public.

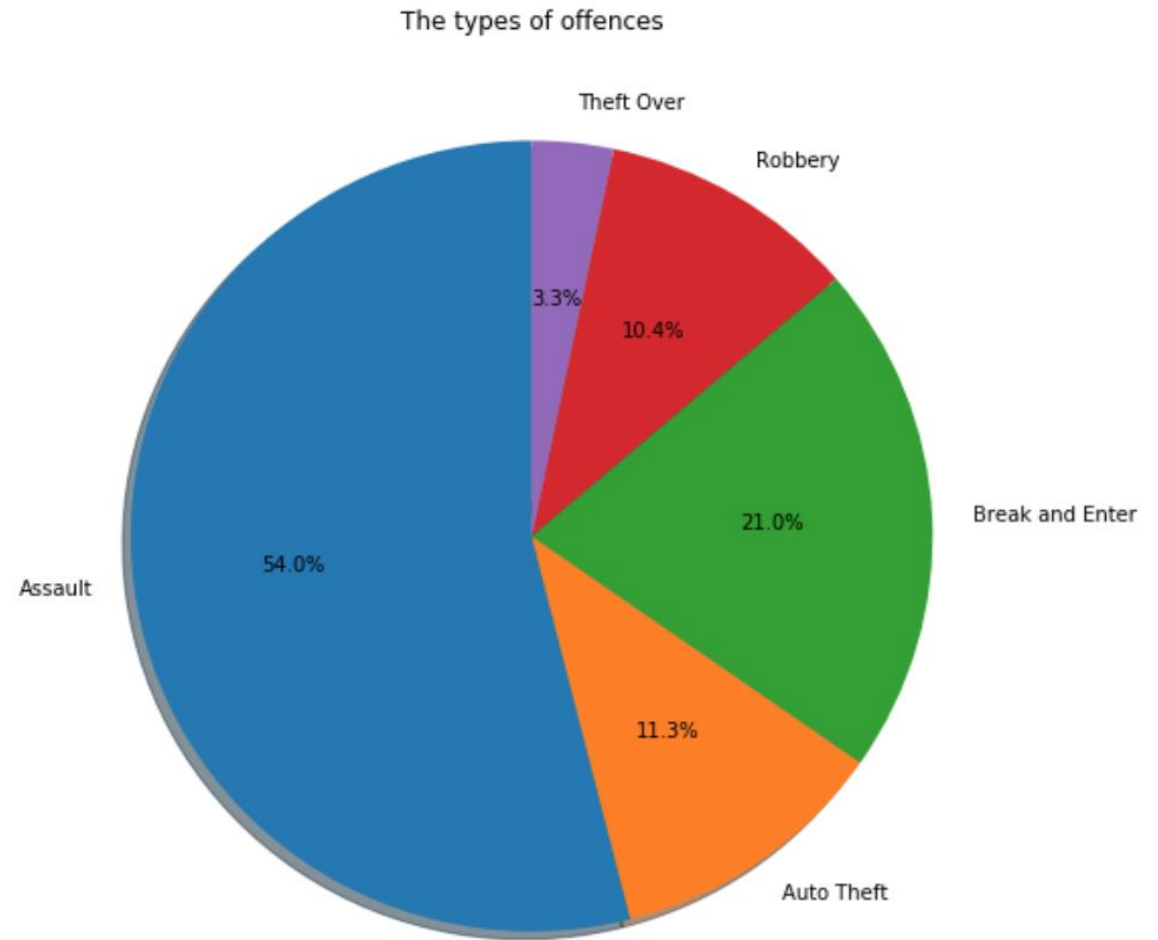
- Link to the data: <http://data.torontopolice.on.ca/datasets/mci-2014-to-2019/data>

- The data has information about all the crimes reported by Torontonians.
- It has the info like: occurrence hour, occurrence day of week, type of offence, the exact location of the crime, etc.

Data Exploration

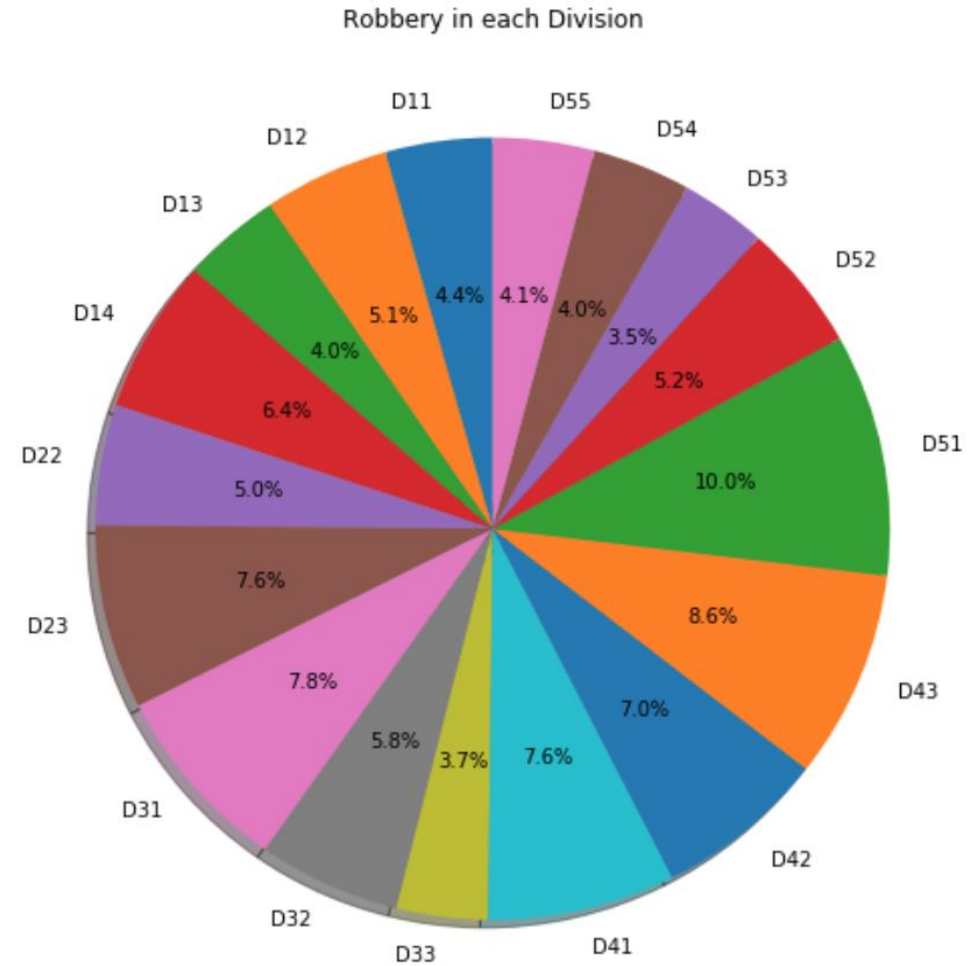
- Analyzing the data can give us more insights

The types of offences



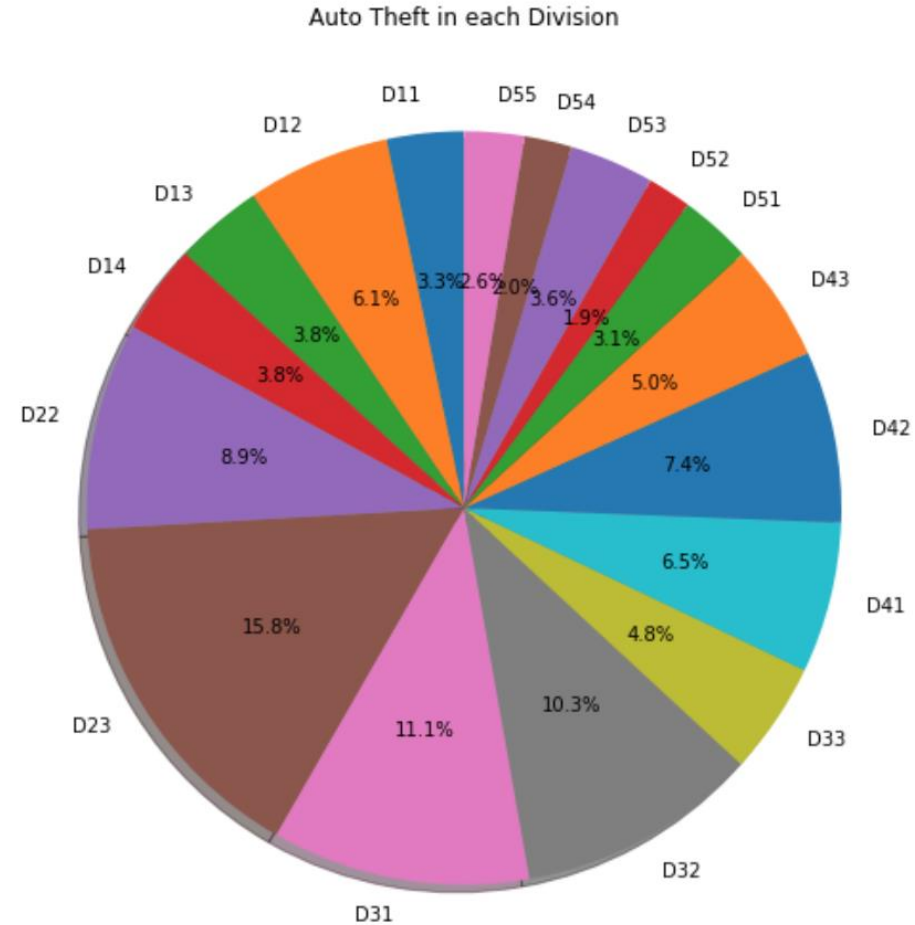
As we can see from the data Assault is the most often crime that occurs.

Robbery in each Division



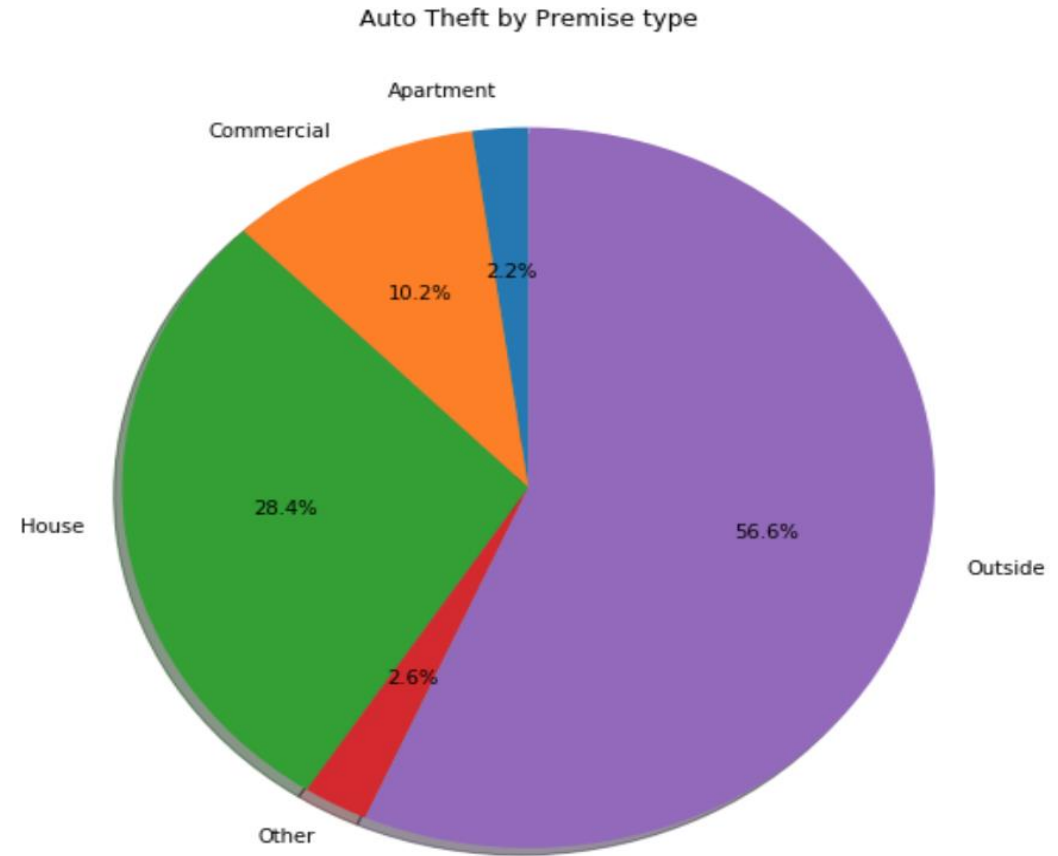
- There are more than twice robberies in D41 than in D53.

Auto Theft in each Division



We can see that D52 has just 1.9% of all the Auto Theft, on the other hand D23 has 15.8% of the Auto Theft.

Auto Theft by Premise type



Auto Theft happens outside 56.6% out of all Auto Thefts.

Model

KMEANS
CLUSTERING
ALGORITHM IS
APPLIED TO THE
DATA TO GET THE
CENTROIDS OF
EACH CLUSTER.

Google API

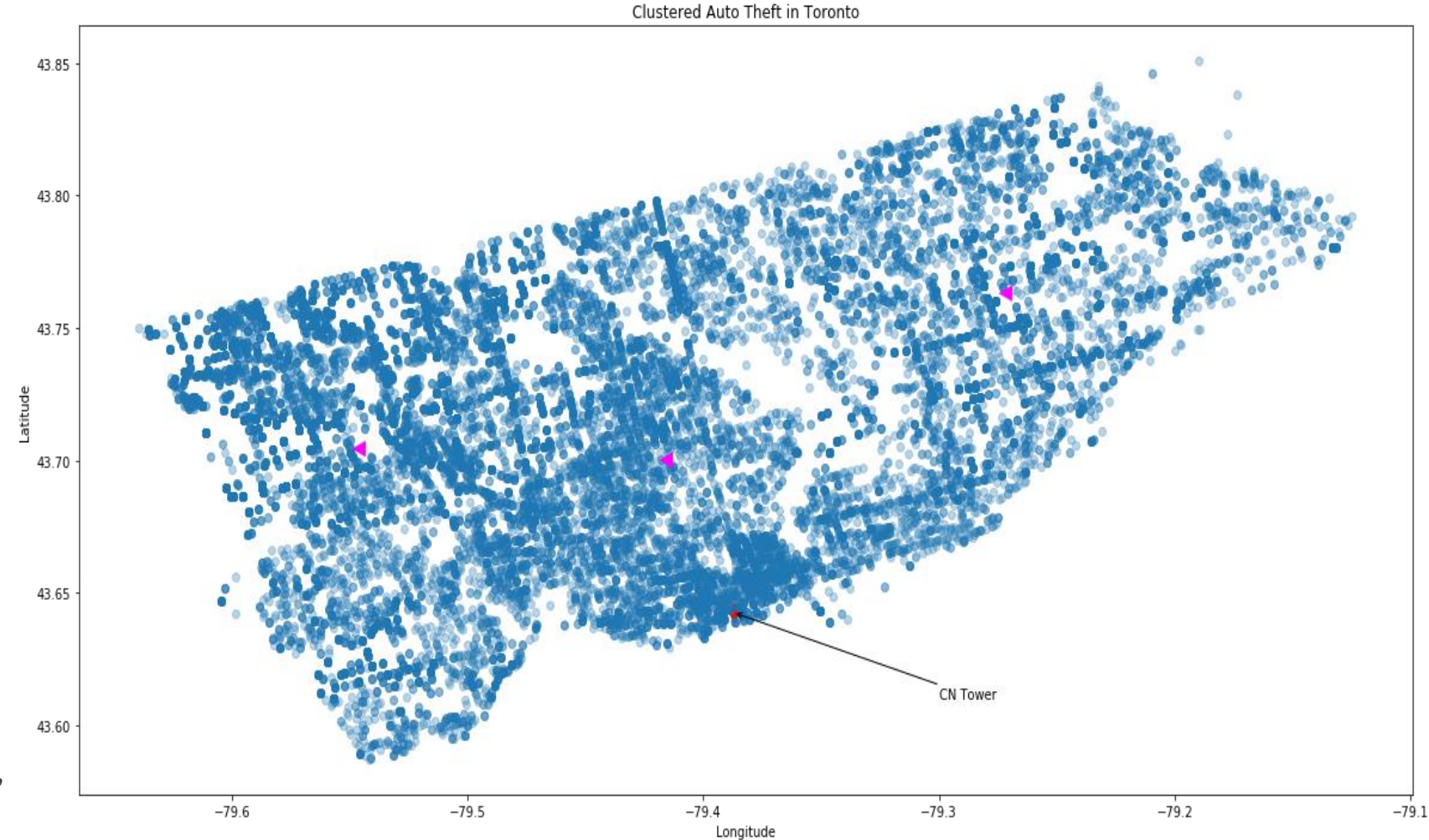
I used google api to convert coordinates to address and back.

Clustered Auto Theft in Toronto

Area around 6 Ormsby Crescent, Toronto, ON M5P 2V3, Canada is the most dangerous.

Area around 7 Midwest Rd, Scarborough, ON M1P 3A6, Canada is the most dangerous.

Area around 89 Golfwood Heights, Etobicoke, ON M9P 3L8, Canada is the most dangerous.

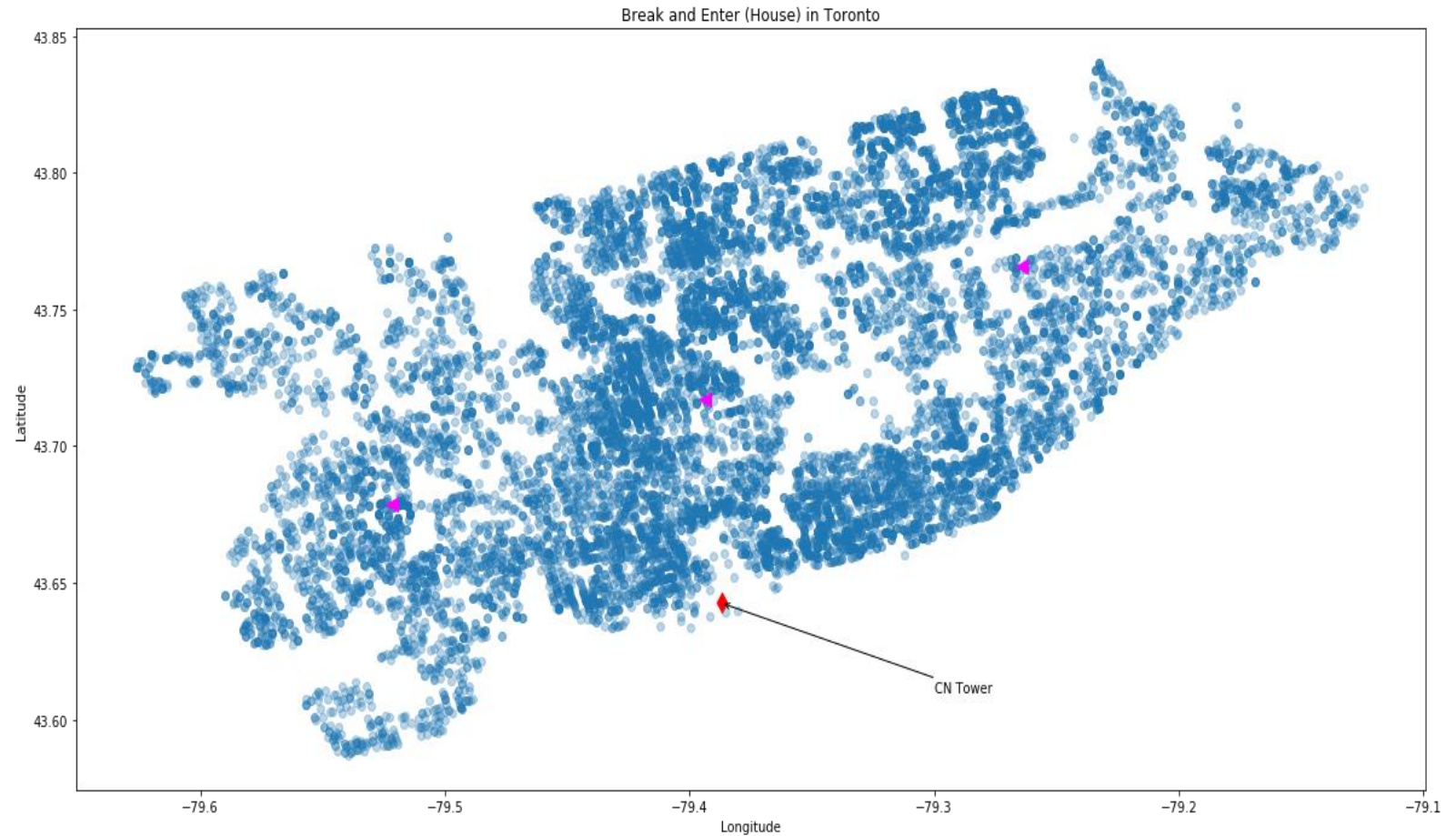


Break and Enter (Apartment) in Downtown Toronto

Area around Wellesley St East at
Jarvis St, Toronto, ON M4Y 1H5,
Canada is the most dangerous.

Area around 275 Shuter St,
Toronto, ON M5A 1W4, Canada
is the most dangerous.

Area around 226 St Patricks
Square, Toronto, ON M5V 1Z6,
Canada is the most dangerous.



Thank you!

The project is done by Danil Redko.

Github: <https://github.com/danilredko/toronto-police-data-analysis>