

# Analysis of Chicago crime data to suggest better housing areas to general population

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## Objective:

The main objective of this project is to find the locality with least crime rate and further explore the area to find required locations like restaurants, cafes, super markets, banks, Movie theatres etc.



**Data:**

In the dataset collected on Chicago crime data , there are columns like beat, location of crime, crime type, geo coordinates. By using the beat column we could get the coordinates of localities having least crime rate. Locations of the areas having least beat values were captured and further analyzed using foursquare API.



Here are some of the geo coordinates of the locates having least beat values.

LATITUDE ▼	LONGITUDE ▼	LOCATION ▼
41.87776207	-87.63688469	(41.877762073, -87.63688469)
41.88465026	-87.62791546	(41.884650262, -87.627915459)
41.87937913	-87.63428935	(41.87937913, -87.634289354)
41.87910409	-87.62434115	(41.879104092, -87.62434115)
41.87660796	-87.62764406	(41.876607964, -87.627644063)
41.88285155	-87.62771491	(41.882851552, -87.627714909)

## Results:

Using some of these coordinates and foursquare API, restaurants near these Locations were explored and below are some of the restaurants found along with the address, but here I am just displaying the names of restaurants within range of 10 miles

```
0   Mariscos El Kora Restaurant
1       El Charro Restaurant
2       Carnitas Don Rafa
3       Wing Wah
4       Mariscos La Bahia
5       La Quebrada
6       Las Brisas Del Mar
7       Golden Heart
```

## Conclusion:

Just like the exploration carried out to find restaurants near a better locality area, other locations like cafes, super markets, fast food centers, banks etc could be further explored by using foursquare API.

Hence, by just having the geo coordinates of the locations needed to explore, we could find many other locations near by a given distance. The excellent feature of selecting the distance range is provided by foursquare API. Using this app, we could find any location of which we need information about. With the help of these analysis and results, we could now suggest a better residential area to the people looking for housing in a locality with least crime rate.