

CHICAGO CRIME DATA

KUBIG

박소현 김효익 조송현 조규선 이영신

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I . Data description

〈Chicago crime data〉

- Incidents of crime that occurred in the City of Chicago from 2012 to 2017
- Data is extracted from the Chicago Police Department's CLEAR (Citizen Law Enforcement Analysis and Reporting) system and includes unverified reports.
- <https://www.kaggle.com/currie32/crimes-in-chicago>



I . Data description

- Variables

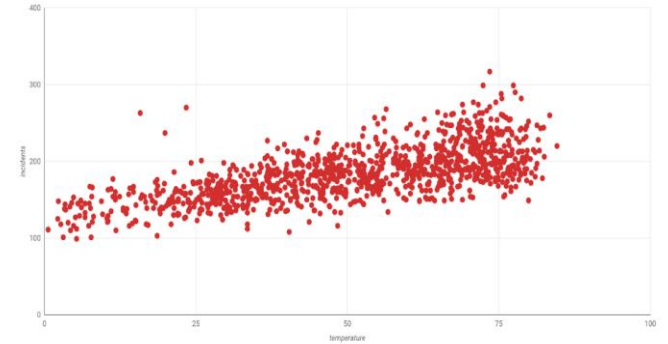
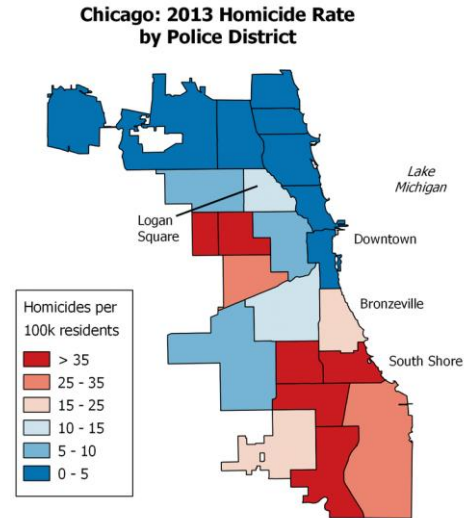
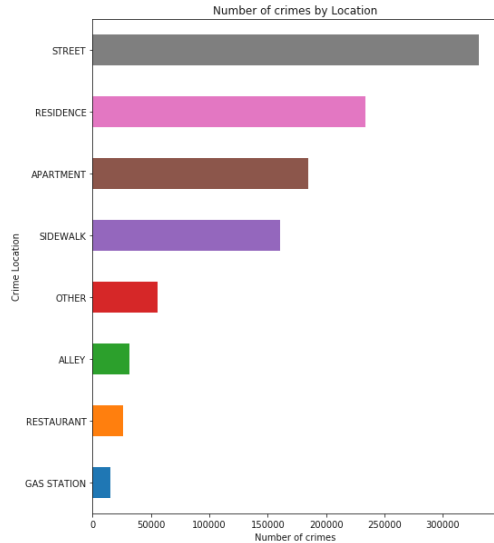
Identification variables : ID, Case Number

Time variables : Date, Year, Updated On

Location variables : Block, District, Ward, Community Area, Location Description, X Coordinate, Y Coordinate, Latitude, Longitude, Location

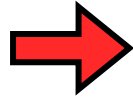
Type variables : IUCR, Primary Type, Description, FBI code, Arrest, Domestic

II. Visualization(EDA)

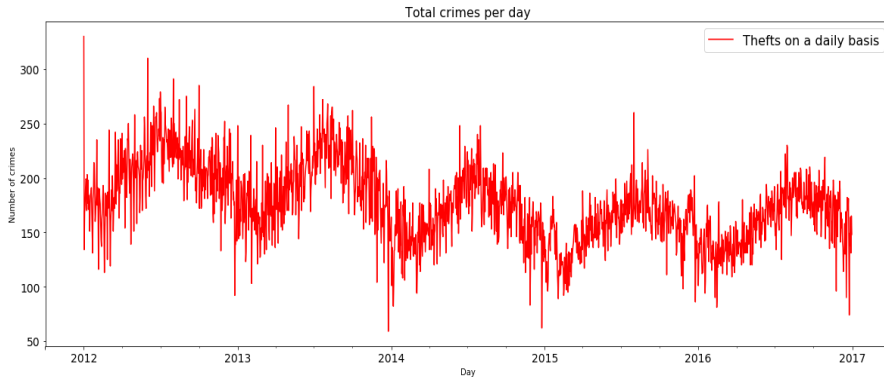


III. Modeling

- Multi Linear Regression
- LASSO/ Ridge
- Clustering
- PCA

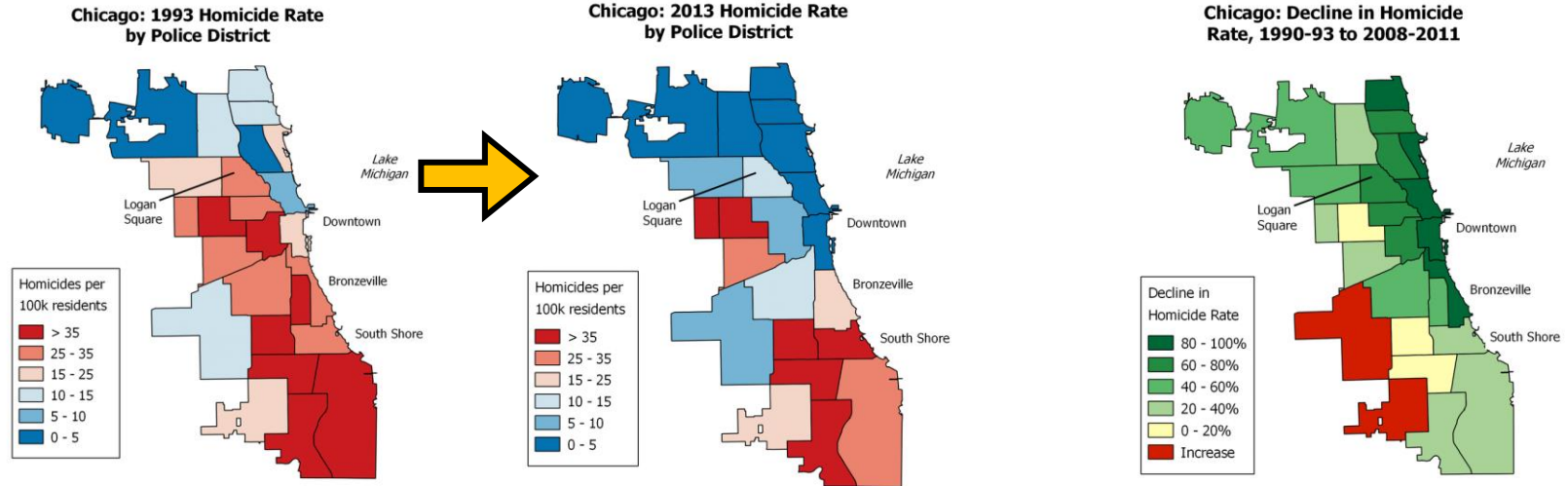


- Crime possibility index
 1. Location variables: Block, District etc
 2. Crime type: Description, IUCR variables (violent/nonviolent etc)
 3. Time variables: Year, Month, Seasonality etc



IV. Expectation

- How has crime changed over the years?
- **Is it possible to predict where or when a crime will be committed?**
- Which areas of the city have evolved over this time span?



Nice to meet you!



Thank you