

Crimes and Household in Austin, Texas (CS 6830)

- Manish Meshram (MS CS)

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Introduction

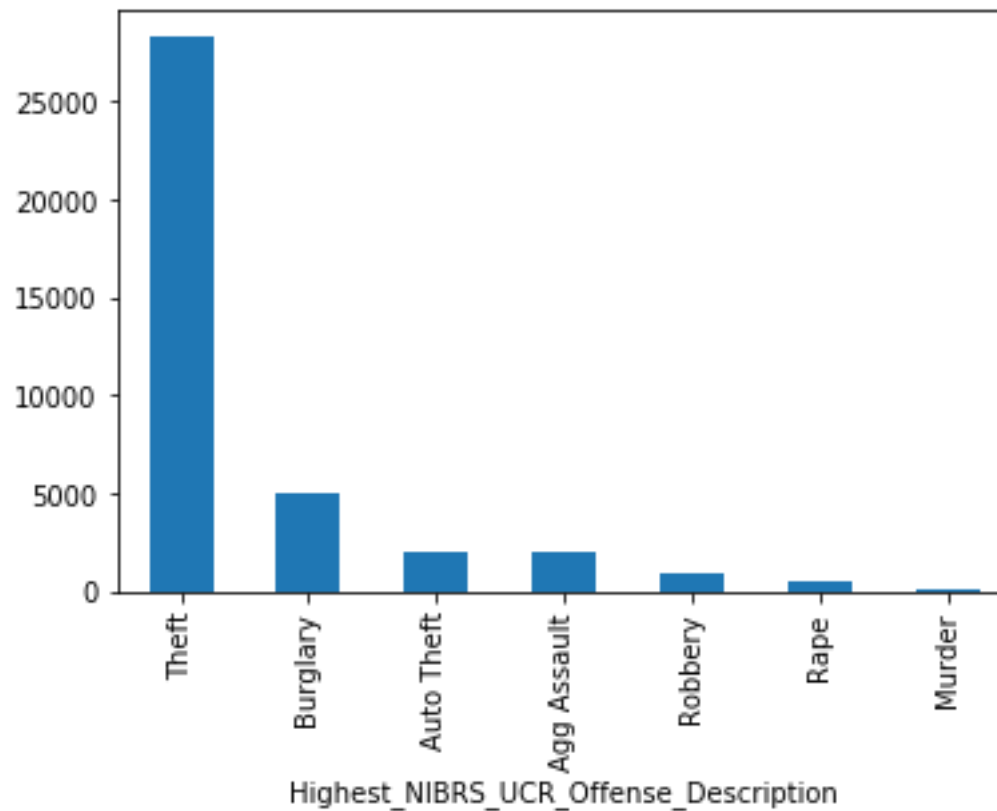
- Dataset – Crime and Household in Austin, Texas in 2015
- Aim – To find the most occurred crime and identify the reason behind it or find out relation between crimes and household data

Dataset

- Crime and Household in Austin, Texas in 2015
- Data Cleaning
 - Ignored null values
 - Cleaned special characters
 - Selected important attributes

Analysis and Results

Most occurred crime



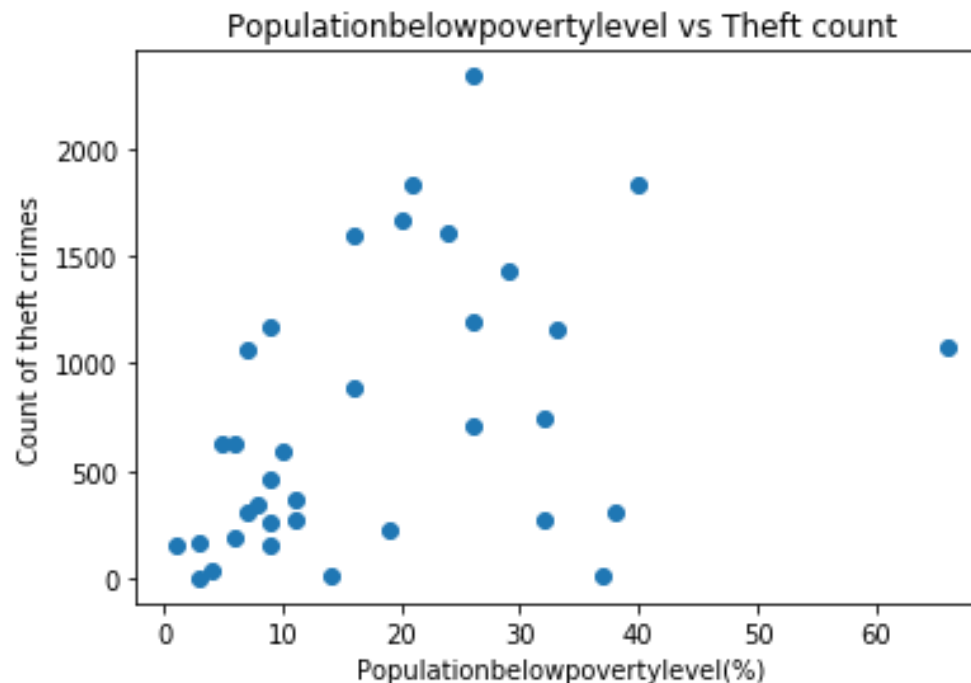
Analysis and Results

Mean and Standard deviation for selected attributes

Attribute	Mean	Standard Deviation
Populationbelowpovertylevel	22.828399828399828	13.436202985687384
Populationwithdisability	9.000663000663002	2.280427717436714
Unemployment	8.148122148122148	6.020988100356848
Largehouseholds(5+members)	8.166296166296167	6.020988100356848
Homesaffordabletopeopleearninglessthan\$50000	37.5982215982216	28.83318859210238
Rentalsaffordabletopeopleearninglessthan\$25000	11.481806481806482	8.575010319427765

Analysis and Results

Correlation – Percentage of population below poverty level and Theft count for zip codes



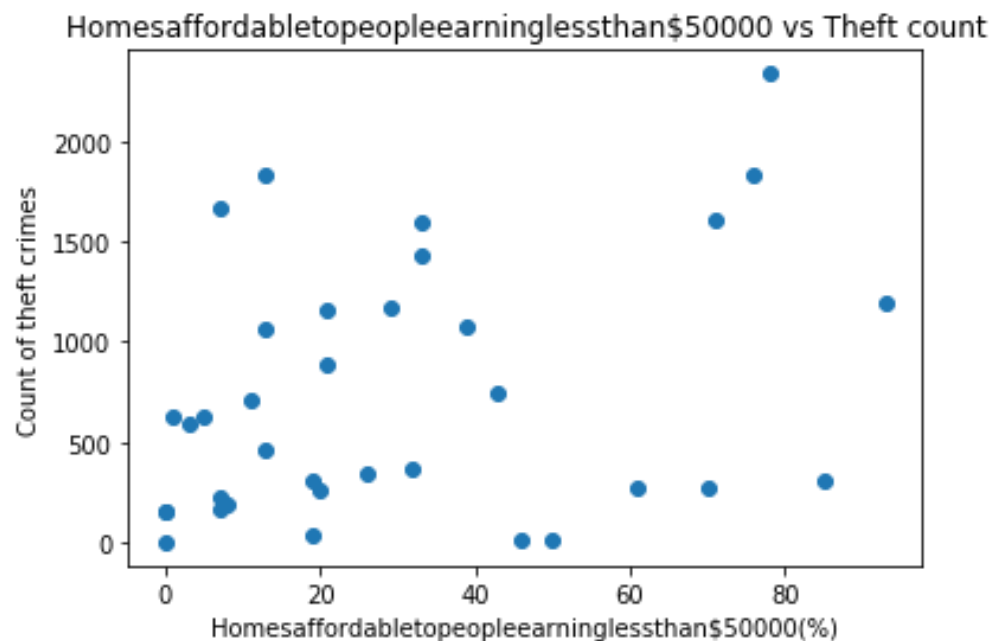
Pearson correlation coefficient: 0.399363685513

p value: 0.0174679610264

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Analysis and Results

Correlation – Percentage of homes available to people earning less than \$50000 and Theft count for zip codes



Pearson correlation coefficient: 0.327312033345

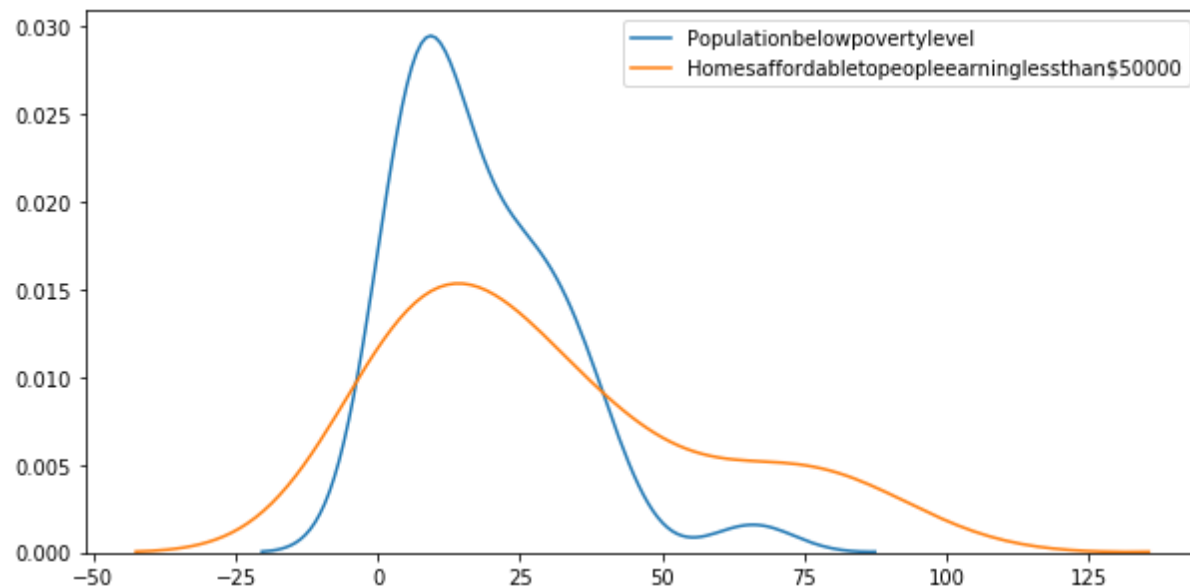
p value: 0.0549435006369

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Analysis and Results

Distributions

Population below poverty level vs Homes affordable to people earning less than \$50000



T value: 2.31150686279

p value: 0.023841935982