



Coursera Capstone Presentation



A presentation by Ian Smith



Introduction



Chicago is one of the biggest cities in the US. By examining the crime data we can see that different areas have higher crime than others.

We can also see which crimes are more common in certain areas than others.

Description

- Important to know which areas have highest crime as this is important for lawmakers, policy makers, developers and family members.
- By examining the different areas of high crime we can assist the above individuals.
- We will be using the Chicago crime dataset obtained on Kaggle -

<https://www.kaggle.com/currie32/crimes-in-chicago>

	Unnamed: 0	ID	Case Number	Date	Block	IUCR	Primary Type	Description	Location Description	Arrest	...	Ward	C A
0	3	10508693	HZ250496	05/03/2016 11:40:00 PM	013XX S SAWYER AVE	0486	BATTERY	DOMESTIC BATTERY SIMPLE	APARTMENT	True	...	24.0	25
1	89	10508695	HZ250409	05/03/2016 09:40:00 PM	061XX S DREXEL AVE	0486	BATTERY	DOMESTIC BATTERY SIMPLE	RESIDENCE	False	...	20.0	45
2	197	10508697	HZ250503	05/03/2016 11:31:00 PM	053XX W CHICAGO AVE	0470	PUBLIC PEACE VIOLATION	RECKLESS CONDUCT	STREET	False	...	37.0	25
3	673	10508698	HZ250424	05/03/2016 10:10:00 PM	049XX W FULTON ST	0460	BATTERY	SIMPLE	SIDEWALK	False	...	28.0	25
4	911	10508699	HZ250455	05/03/2016 10:00:00 PM	003XX N LOTUS AVE	0820	THEFT	\$500 AND UNDER	RESIDENCE	False	...	28.0	25

Crime

Crime Count by Area

	Community Area	Count
0	Albany Park	2387
1	Archer Heights	876
2	Armour Square	1013
3	Ashburn	2689
4	Auburn Gresham	7536
5	Austin	16462
6	Avalon Park	1298
7	Avondale	2263
8	Belmont Cragin	4716
9	Beverly	964

Crime type by area

	Description	Crime_Type_Count
0	\$500 AND UNDER	24124
1	ABUSE/NEGLECT: CARE FACILITY	4
2	AGG CRIM SEX ABUSE FAM MEMBER	129
3	AGG CRIMINAL SEXUAL ABUSE	166
4	AGG PO HANDS ETC SERIOUS INJ	19
5	AGG PO HANDS NO/MIN INJURY	861
6	AGG PRO EMP HANDS SERIOUS INJ	34
7	AGG PRO.EMP: HANDGUN	30
8	AGG PRO.EMP: OTHER DANG WEAPON	101
9	AGG PRO.EMP: OTHER FIREARM	3
10	AGG PRO.EMP:KNIFE/CUTTING INST	47
11	AGG SEX ASSLT OF CHILD FAM MBR	49
12	AGG: HANDS/FIST/FEET NO/MINOR INJURY	138
13	AGG: HANDS/FIST/FEET SERIOUS INJURY	158
14	AGGRAVATED	769

Results

The huge number of crimes in Chicago across a number of different community areas shows that a large amount of work is needed to fix the problem of crime in Chicago.

Conlcusion

This small project shows the power of data analysis in decision making for policy makers, developers and families to name just a few. I have managed to answer questions set out in the introduction of the report. Also, the project provides scope for improvement with additional questions as mentioned in the results section
