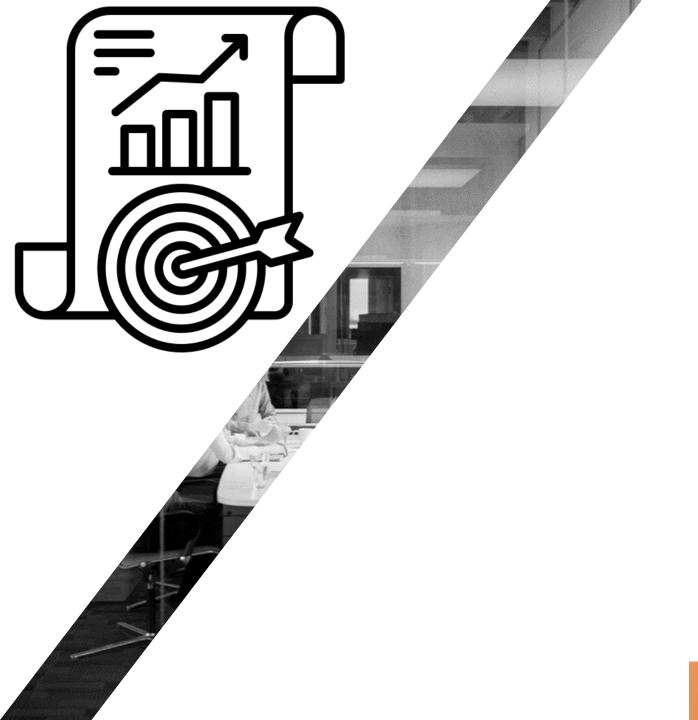
CRIME DATA ANALYSIS USING PYTHON & MYSQL

Mayank Shukla



OBJECTIVE

TO ANALYZE CRIME PATTERNS OVER
TIME, IDENTIFY HOTSPOTS, AND
UNCOVER MEANINGFUL INSIGHTS
FOR POLICY AND PREVENTION

TOOLS & TECH • PyMySQL (For DB STACK Connection)

Python (Pandas, Matplotlib/Seaborn)

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- MySQL (For Storing / Querying Data)

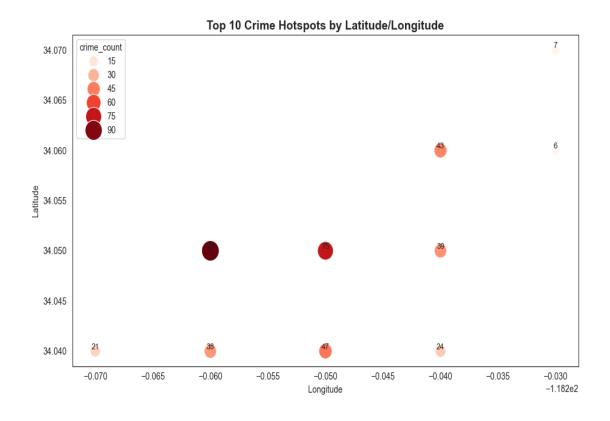
DATASET OVERVIEW

DATASET INFO

#	Column	Non-Null Count	Dtype
0	DR_NO	499 non-null	int64
1	Date_Rptd	499 non-null	Object
2	DATE_OCC	499 non-null	object
3	AREA_NAME	499 non-null	object
4	Crm_Cd	499 non-null	Int64
5	Crm_Cd_Desc	499 non-null	object
6	Vict_Age	499 non-null	int64
7	Vict_Sex	499 non-null	object
8	Premis_Desc	499 non-null	object
9	Status	499 non-null	object
10	Location	499 non-null	object
11	LAT	499 non-null	float64
12	LON	499 non-null	float64

TOP 10 CRIME HOTSPOT BY LATITUDE AND LONGITUDE

			_
	lat_group	lon_group	crime_count
0	34.05	-118.26	95
1	34.05	-118.25	75
2	34.04	-118.25	47
3	34.06	-118.24	43
4	34.05	-118.24	39
5	34.04	-118.26	38
6	34.04	-118.24	24
7	34.04	-118.27	21
8	34.07	-118.23	7
9	34.06	-118.23	6

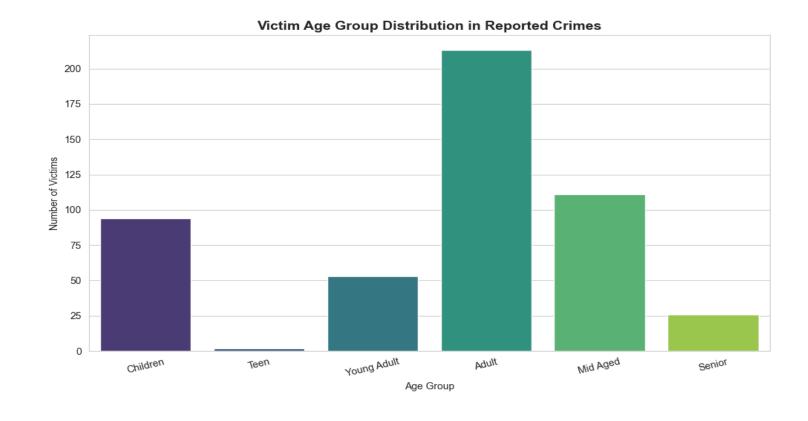


AGE GROUP DISTRIBUTION

Insight:

Most Common Victim: Adult

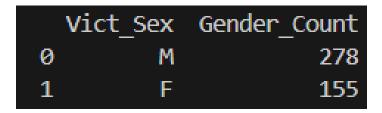
	age_group	Total_Count
0	Adult	213
1	Mid Aged	111
2	Children	94
3	Young Adult	53
4	Senior	26
5	Teen	2



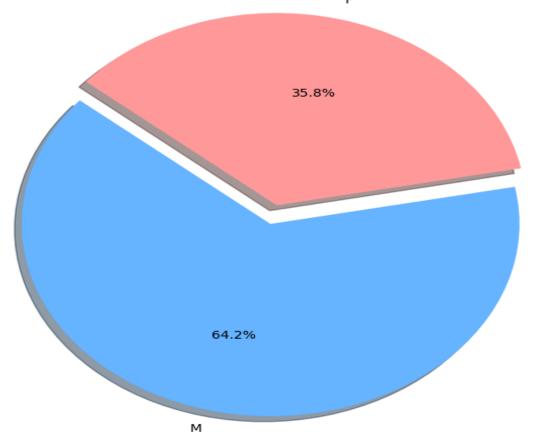
GENDER-WISE DISTRIBUTION OF VICTIMS

Insight:

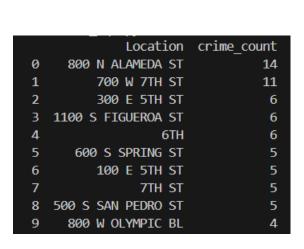
64.2% of victims were male

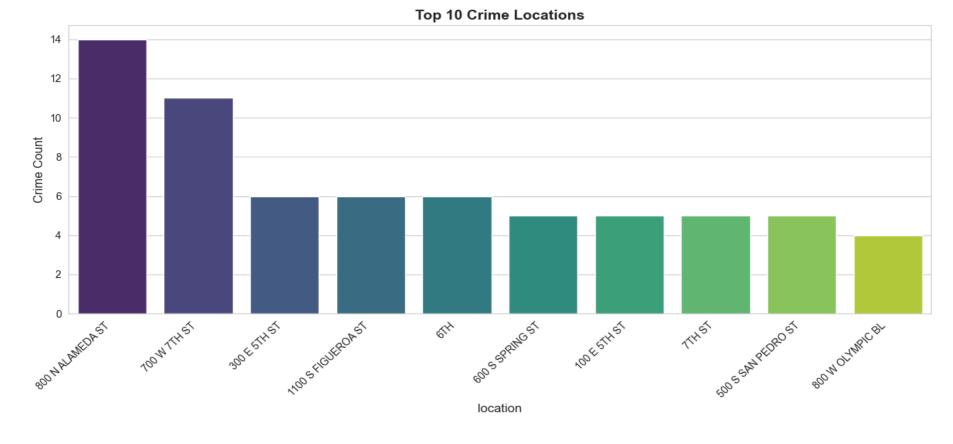






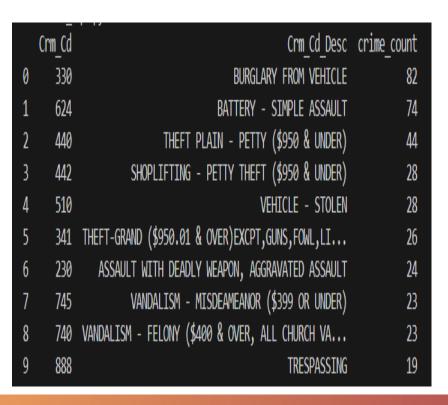
LOCATION WISE CRIME HOTSPOT

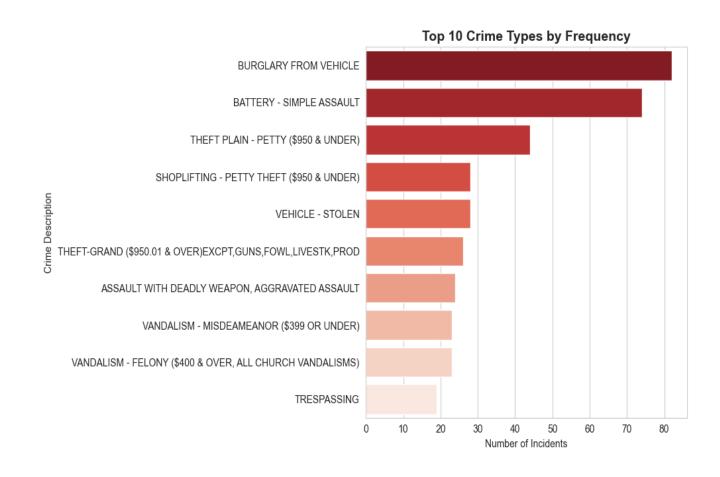




ANALYSIS BY CRIME CODE DESCRIPTION

Insight: Most common crime: BURGLARY FROM VEHICLE





RECOMMENDATIONS

- Focus patrolling in high crime zones
- Analyze trends before festive seasons
- Use predictive modeling for resource allocation
- At high crime zone install more CCTV Camera





CONCLUSION

THIS ANALYSIS REVEALS CLEAR PATTERNS
IN VICTIM DEMOGRAPHICS, CRIME TYPES,
AND GEOGRAPHIC HOTSPOTS. MALES AND
ADULTS ARE THE MOST FREQUENT
VICTIMS, WITH "BURGLARY FROM
VEHICLE" BEING THE TOP CRIME
REPORTED. DATA-DRIVEN INSIGHTS LIKE
THESE CAN GUIDE SMARTER LAW
ENFORCEMENT STRATEGIES, TARGETED
RESOURCE ALLOCATION, AND IMPROVED
PUBLIC SAFETY PLANNING.

THANK YOU

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