



SLOPD: POLICE LOG ANALYSIS

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Example Police Log

Incident ID

Date

Times

240226084 02/26/24 (Received:22:50 Dispatched:22:52 Arrived:22:54 Cleared:01:13)

Type: Welfare Check

Location:PN13

As Observed:

Intoxicated Person

Type

Address

SLO Grid ID

Addr: 253 MADONNA # 120; STARBUCKS; GRID I-13, Clearance Code:Report To Follow

Responsible Officer: Frye, D

Units: 4240 ,4245

Des: incid#=240226084 AP/ RILEY, SEAN 101679 PC647(F) clr:RTF call=1131

CALL COMMENTS: MALE PASSED OUT IN SHRUB PLANTER IN PLOT

Comments

AWS Pipeline Framework



Lambda

Daily Scheduled
Web Scraping

Utilize S3 for Data
Lake

S3



Sagemaker

Final Models and
Visualizations

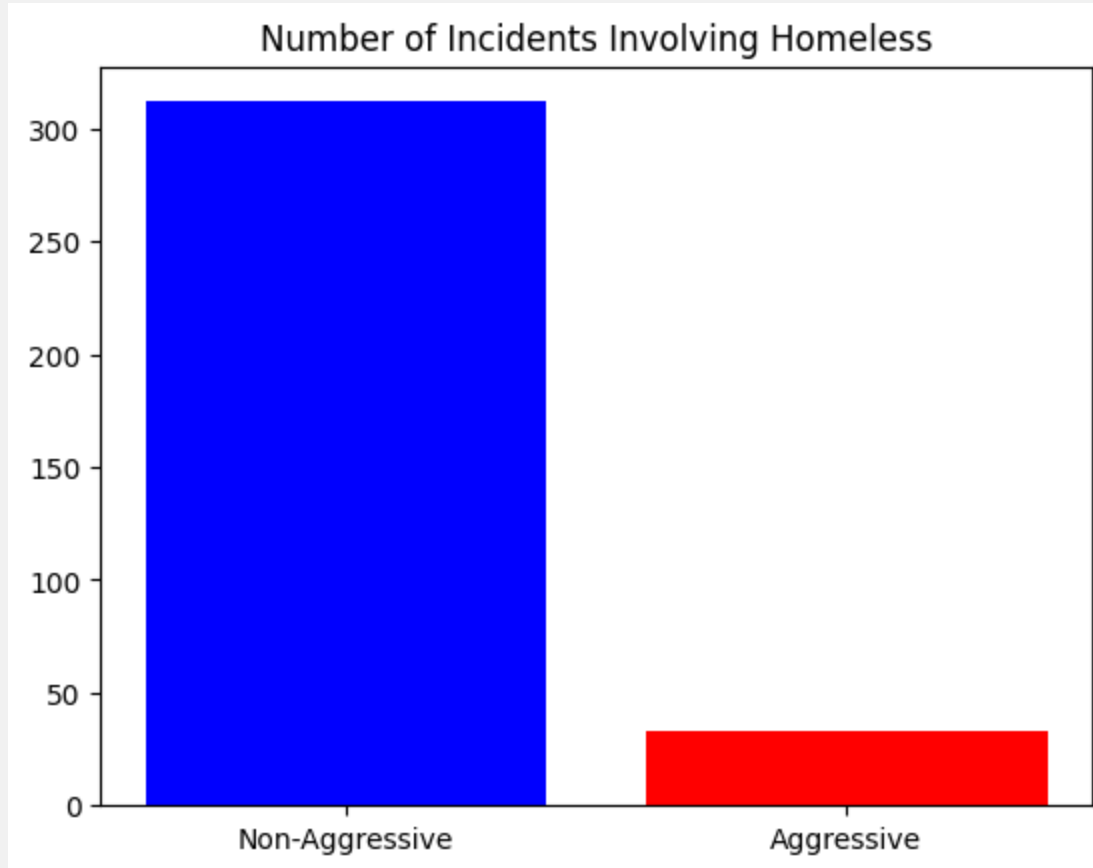
Modeling Adventures

- Wanted to have a model that predicted Grid Zone and Crime Type for SLOPD to utilize
- Initial results were promising
- Failed to account for class imbalance in Crime Type and Grid Zones
- New attempt with class weights accounted for proved to be as effective as random guessing

Key Takeaways:

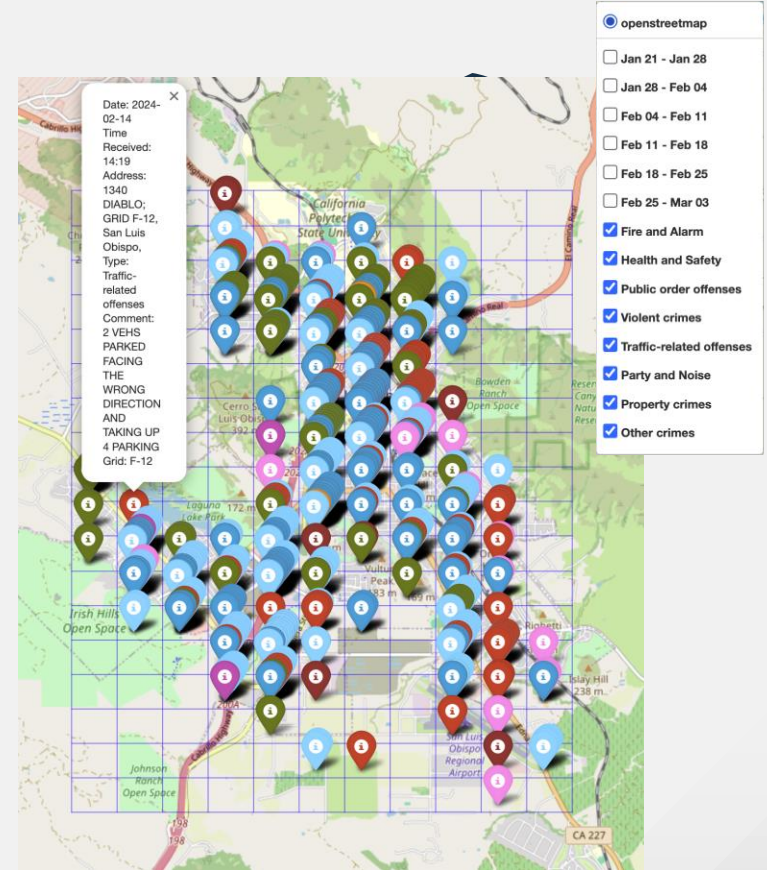
- Investigate what is behind the metrics
- Always account for class imbalance

Over-policing the Homeless?



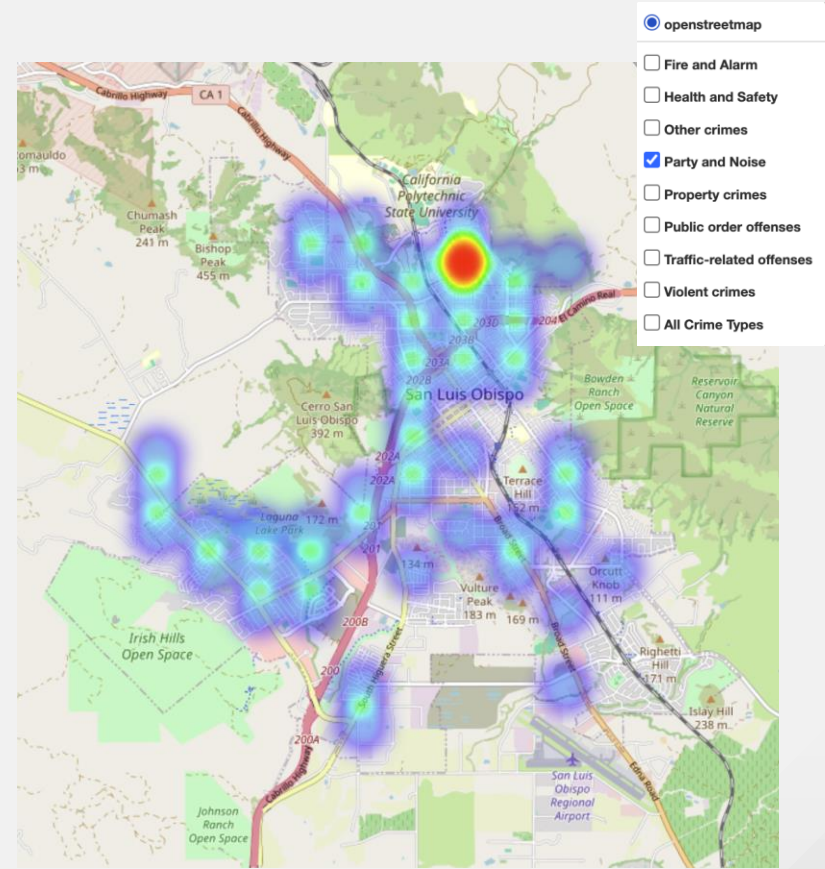
Interactive Incident Map

- Filter Reports by Week or Type
- Color Coordinated by Incident Type (Excludes abandoned 9-1-1 Calls)
- Includes Date, Times, and other Specific Info about Report



Incident Heat Map

- Filter Reports by Type



Are there More Crimes on Full Moons?

- Two full moons in our dataset – Jan. 25, Feb. 24
- 115 incidents on Thursday, Jan. 25
 - Average Thursday Incident Count: 84
- 88 incidents on Saturday, Feb. 24
 - Average Saturday Incident Count: 81
- Conclusion: ... Werewolves?

