

Los Angeles number of shooting incidents and apartment prices analysis

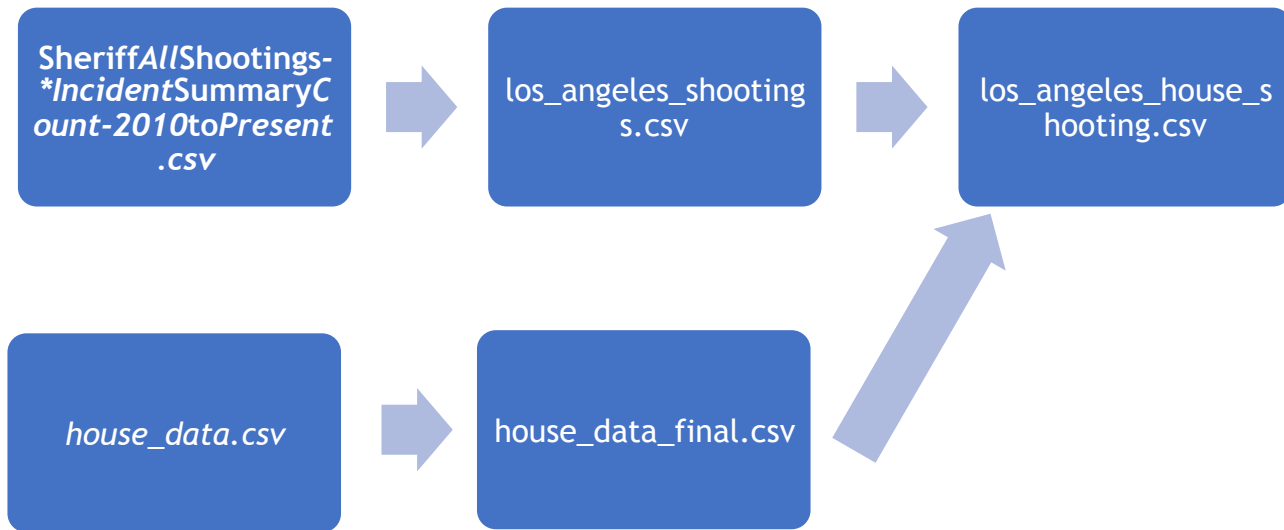
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part.1

Data Diagram

Data Sources



part.2

Analysis

Analysis

- Methodology: Calculated the total number of shootings for each zip code and analyzed the correlation between shooting rates and rental prices in different zip codes
- We use **Pearson correlation** to analyze the relationship between shooting and apartment housing prices, assuming a negative correlation between the two.

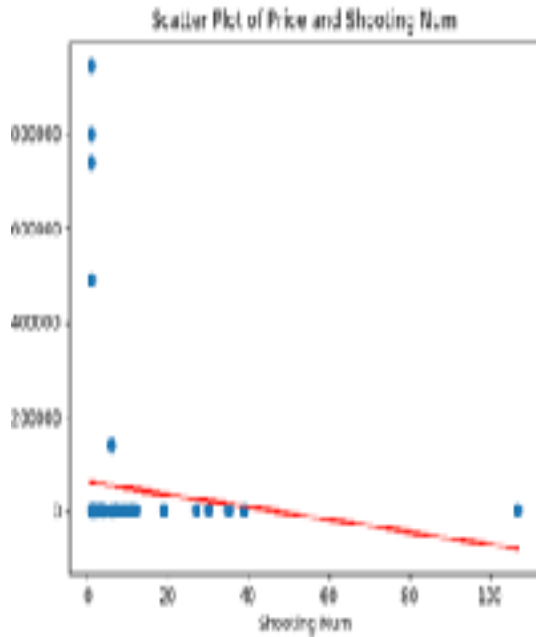
Analysis

- We found that the postal code with the **highest rental price** is **90703 (Cerritos, CA)**, with a price of \$945,000 and a shooting number of 1. The postal code with the **lowest rental price** is **90304 (Inglewood,CA)**, with a price of \$600 and a shooting number of 1. In addition, for areas with a **higher number of shooting incidents**, such as **93534(Lancaster,CA)**, the shooting number is 35 and the price is \$1,925.

part.3

Results and other aiding visualizations

Results



- Results: Found a **very weak negative correlation** between the frequency of shooting incidents and rental prices, with a Pearson correlation coefficient of only **-0.10939880287722278**

part.4

Evaluation Metrics used for results

Evaluation Metrics

```
Mean squared error: 33546230832.736916
```

- We also performed linear regression between shootings and housing prices, using **Mean Squared Error (MSE)** as the evaluation metric. We then used shootings to predict housing prices, compared the predicted prices with the actual prices, and calculated the MSE.

part.5

Conclusion

Conclusion and Future scope

- Summary of findings: There is a very **weak negative correlation** between the frequency of shooting incidents and rental prices
- Limitations and future work: The conclusion drawn from the analysis may not be comprehensive enough due to the limited number of shooting incidents recorded in the dataset. Further research with a larger and more representative dataset is needed to obtain a more robust understanding of this relationship.

THE END

THANKS