FUTURE MUSEUM LOCATIONS

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INTRODUCTION

Mr Pierre Angier, a french artist, wants to build a museum in United States of America. Thus, he is looking for the best neighborhood with little crime rate and lots of people.
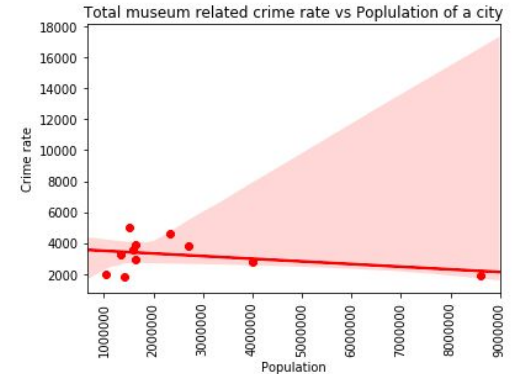
DATA CLEANING

Different datasets were created, collected and transformed to carry out regression analysis and build maps links to the datasets are found below:

- Crime Rate per 100,000 people
- San Francisco Neighborhood data

Neighborhood	Latitude	Longitude
Allied Gardens	32.8003	-117.0853
Alta Vista	32.6926	-117.0684
Balboa Park	32.7341	-117.1446
Bario Logan	32.693	-117.1368
Bay Ho	32.8242	-117.2176
Bay Park	32.7918	-117.2
Bay Terrace	32.6805	-117.036
Bird Land	32.7924	-117.1529
Carmel Mount.	32.9805	-117.0735
Carmel Valley	32.9398	-117.2029
Chollas View	32.7121	-117.0941
City Heights	32.74	-117.1

REGRESSION PLOT

A regression plot was created to find any relationship between Crime rate per 100,000 people and Population

Total museum related crime rate vs Poplulation of a city
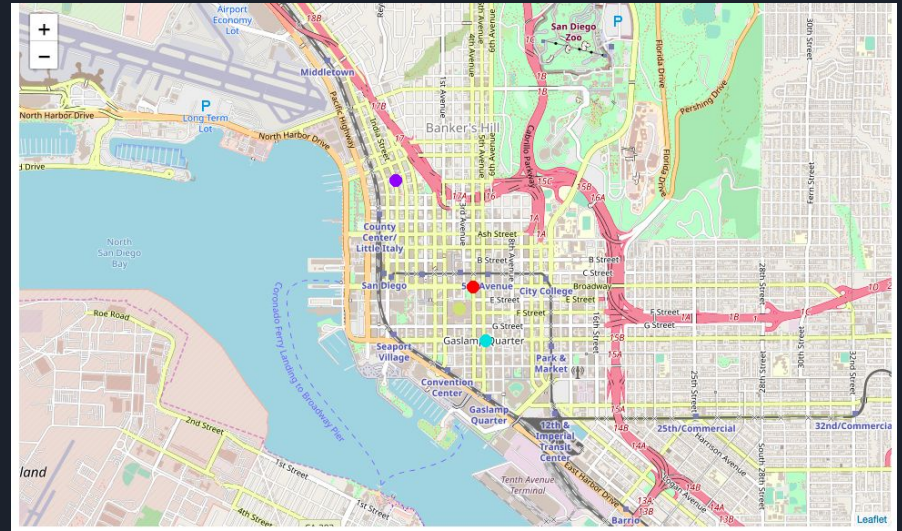
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[46]: from scipy.stats import pearsonr
      corr, other = pearsonr(df.Population, df.Total)
      print(corr)

      -0.3453858231203566
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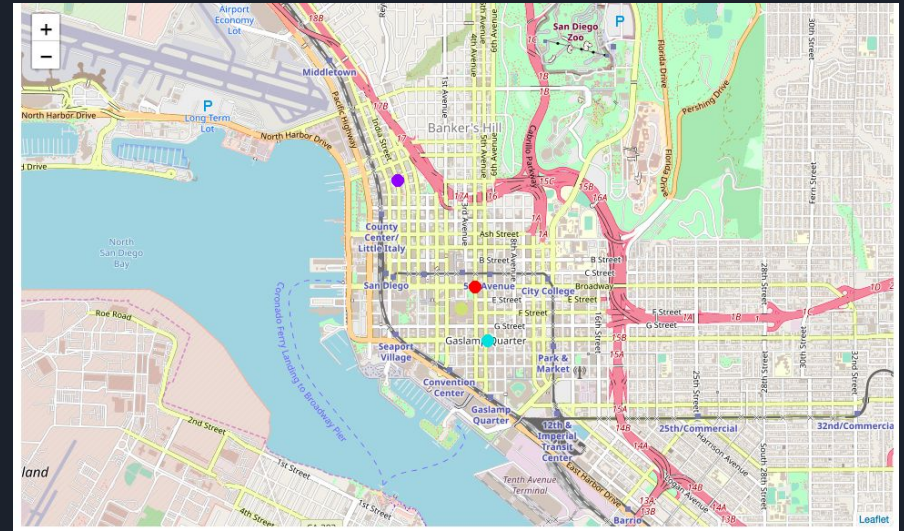
MAPS

A map with the neighborhoods of the most venues was built to decide the perfect location for his museum.

RESULTS

It was discovered that he can choose to use three neighborhoods: Horton Plaza, Gaslamp Quarters or College Area to build his museum.

CONCLUSIONS

- The dataset provided in the projected assisted immensely in cleaning and preparing the data for analysis and
- The foursquare api credentials were used to navigate through the neighborhoods to find the best location for his museum.
- He does not have one option but three options for a museum which is a good thing since he can build a bigger network for his museum and form more partnerships.

Thank You!

Sources Cited

- https://www.klook.com/activity/3301-louvre-museum-skip-the-line-guided-tour-paris/