MOD 4 Final Project

Task

The focus will be on finding the top 5 zip codes to invest in for our stakeholders. We will consult those who are interested in some opportunities on the West Coast.

OSEMN Process

- 1. Obtain the Data
- 2. Scrub the Data
- 3. Explore the Data
- 4. Model the Data
- 5. Interpret the model

1. Obtain the Data

Data from Zillow

https://www.zillow.com/research/data/

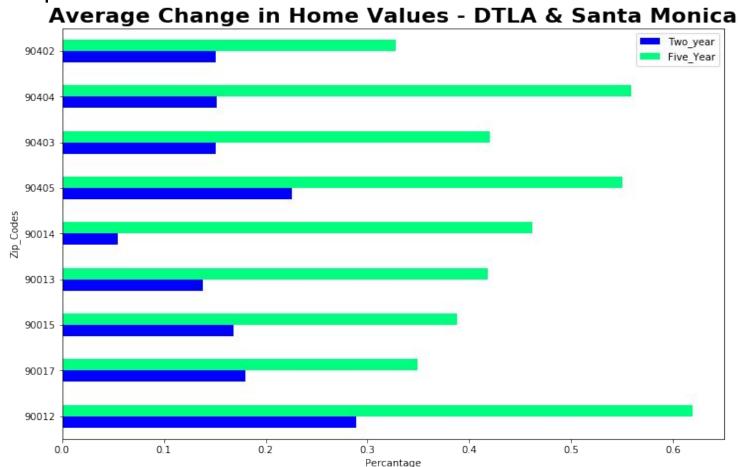


2. Scrub the Data

- 1. Filtered out the chosen zip codes.
- Reshaped the time series data from wide to long format.



3. Explore the Data



4. Model the Data

ARIMA



5. Interpret

Model Forecast:

DTLA: 224% loss five years after end of data

SAMO: 20% gain five years after end of data

Top 5 Zip Codes:

- 1. 90404(Santa Monica)
- 2. 90405(Santa Monica)
- 3. 90013(DTLA)
- 4. 90012(DTLA)
- 5. 90014(DTLA)

Future Work

- Collect more recent data of home values to better understand the current real estate situation and improve predictions.
- Model each zip code's return data and more precisely pinpoint the correct zip codes, rather than using the last 6 months of data available.
- 3. Research other beach and inland areas, incorporating additional data like population and proximity to freeways and public transportation.

THANK YOU!

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