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PROJECT DEBRIEF

Description of the project.

TOPIC ANALYSIS

Home Values across the United States.

ANALYSIS

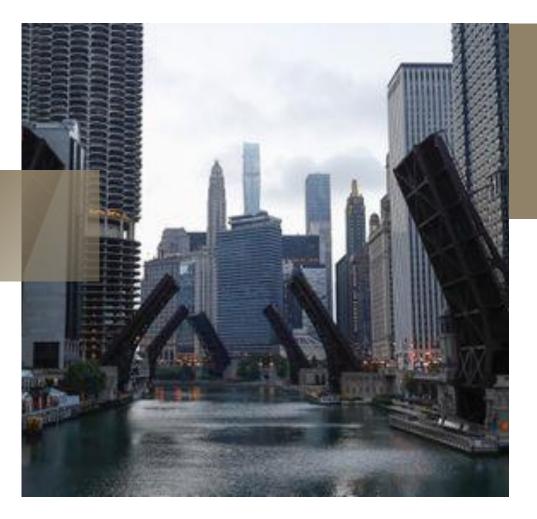
Exploration of the data.

MODEL AND PREDICTIONS

Bringing it all together.

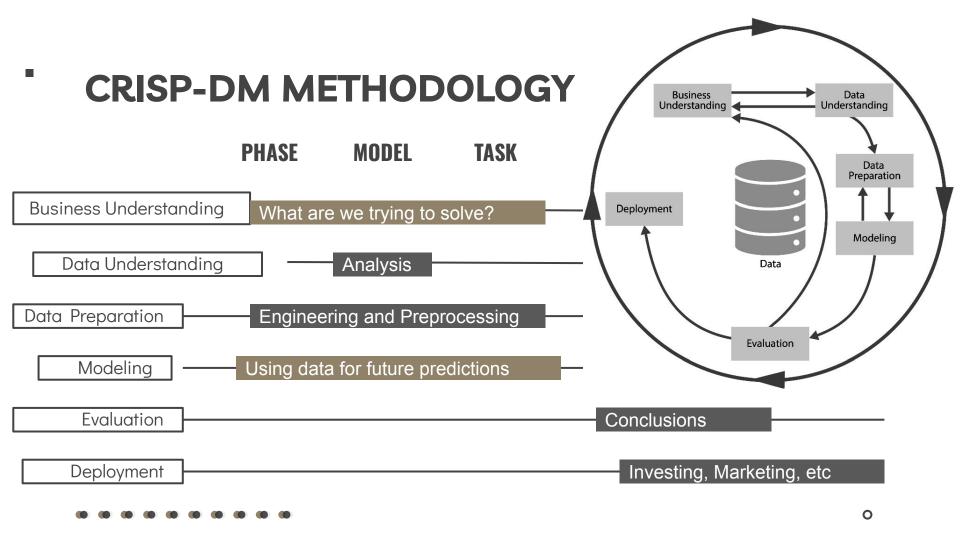
FUTURE WORK AND WRAP UP

Where I would like this project to go in the future.



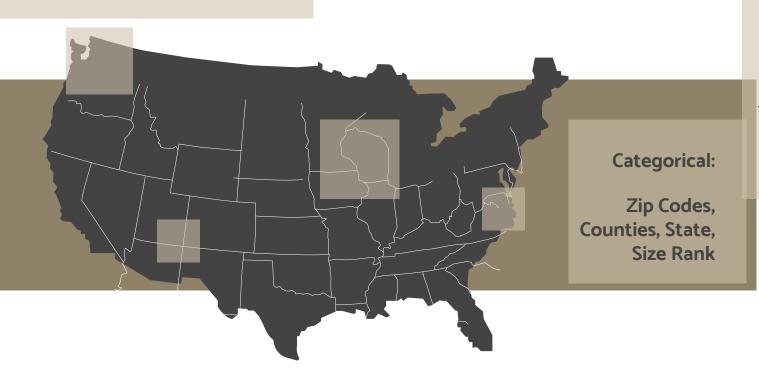
OBJECTIVE AND MOTIVATION

Predict the top 5 zip codes from Zillow's extensive range of data on home values throughout the United States using time series analysis.





THE DATA



Numerical:

Home Values for zip codes across the United States for every month from 1997 - 2018

URBANIZATION

LARGE POPULATION DENSITY
PEDESTRIAN FRIENDLY
PUBLIC TRANSPORTATION

FOOD AND CULTURE

LARGE VARIETY OF RESTAURANTS AND A RICH CULTURE

CLIMATE FRIENDLY

HIGH POPULATION
DENSITY = LOW CARBON
EMISSIONS

GROWTH/POPULATION

HIGH CONTINOUS GROWTH ABOVE NATIONAL MEDIAN AVERAGE



8,124

Restaurants, bars and coffee shops

Residents can walk to an average of 5 within 5 minutes

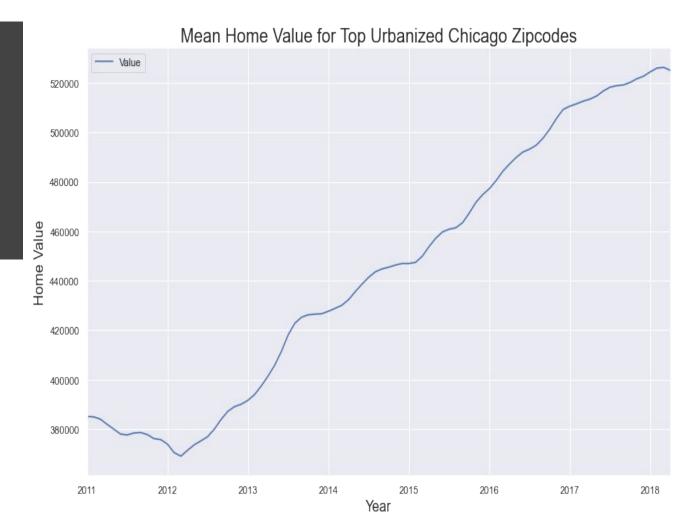
Walk Score

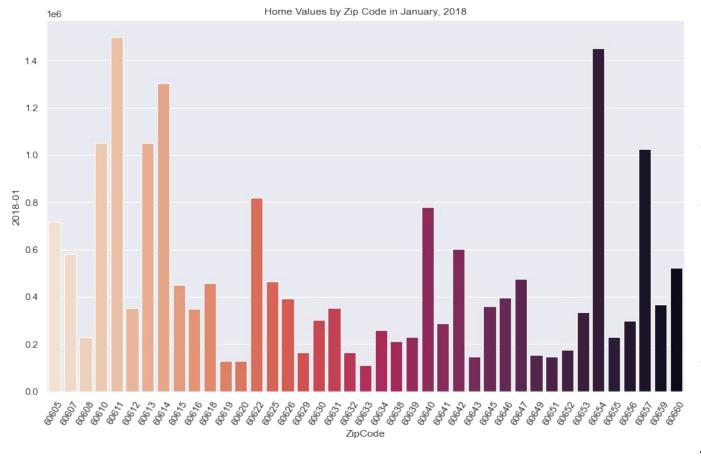




SIDE NOTE: REAL PICTURE TAKEN BY ME!

What does Chicago's home value growth look like?

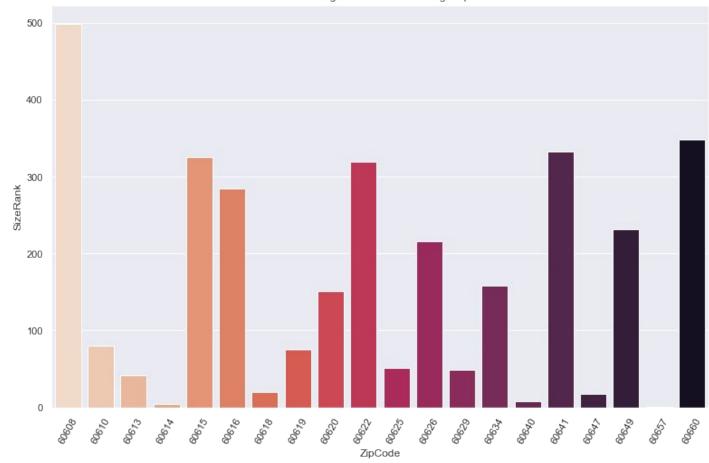




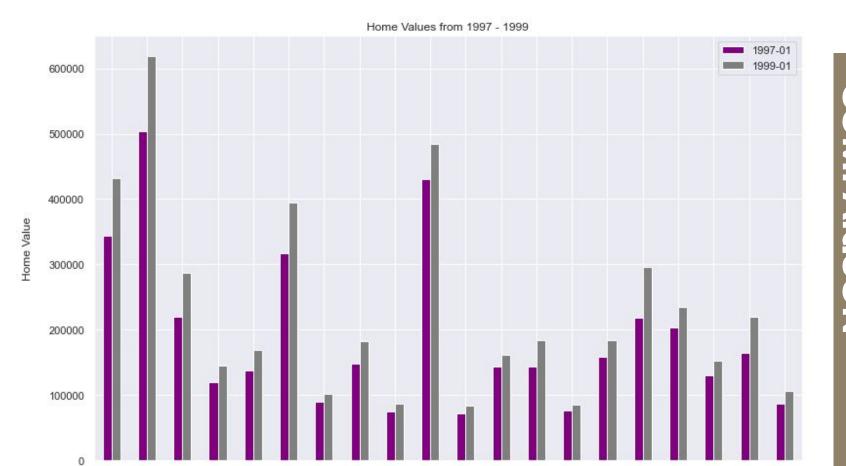
ROGERS PARK CHICAGO LAWN **GOLD COAST LOGAN SQUARE UKRAINIAN VILLAGE WEST LOOP UPTOWN WICKER PARK RAVENSWOOD LOGAN SQUARE BOYSTOWN** LINCOLN SQUARE **SOUTH LOOP UPTOWN HUMBOLDT PARK ANDERSONVILLE**

SizeRank ZipCode

Size Rank of Chicago Zip Codes



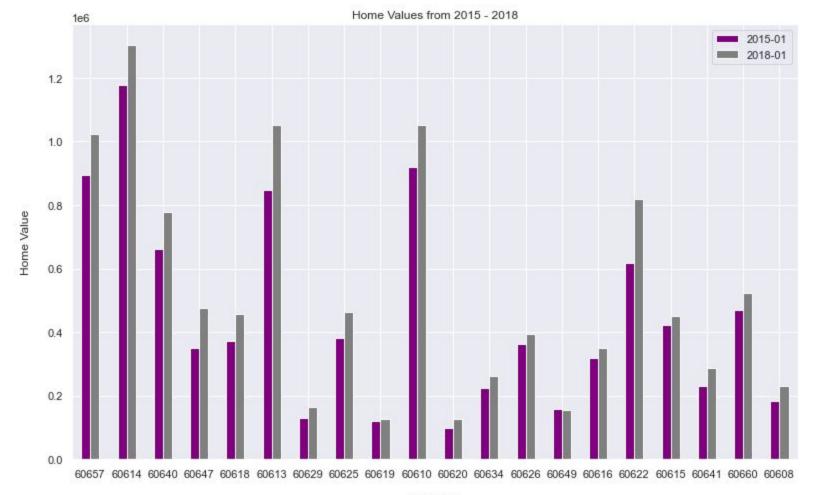


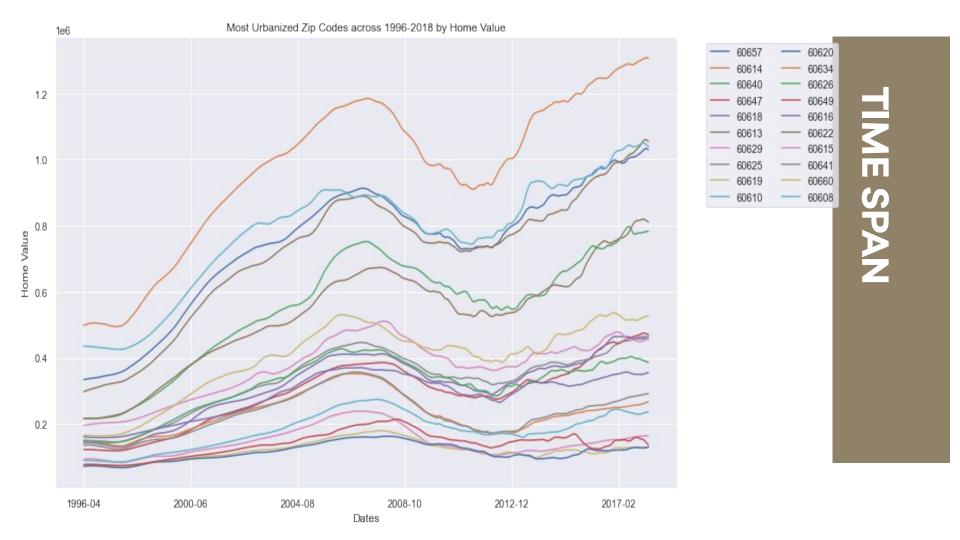


60625 60619 60610 60620 60634 60626 60649 60616 60622 60615 60641

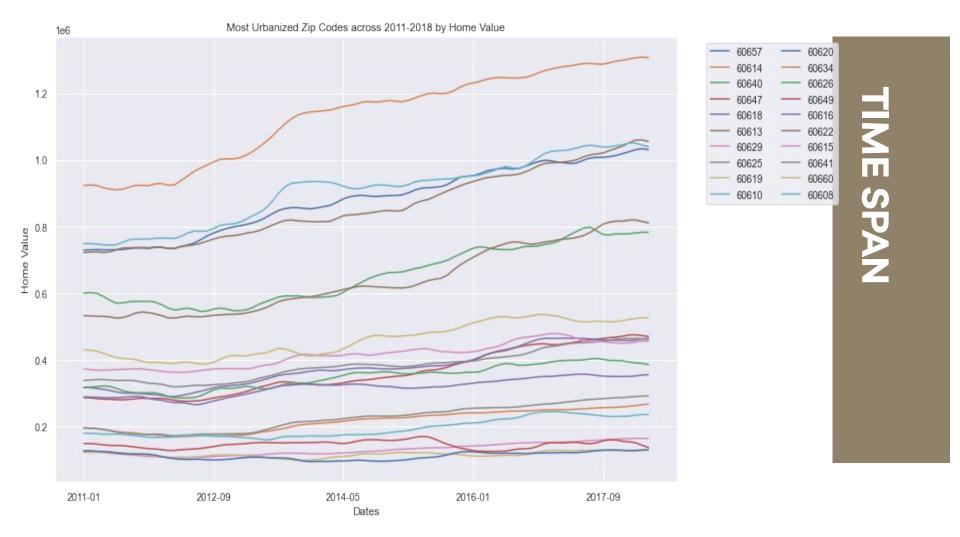
60657 60614 60640

60647 60618 60613 60629











LOCATION **CHICAGO TOP 50%** HIGHLY URBANIZED ZIP CODES HOME VALUE SPAN 2011 - 2018

SARIMAX MODEL



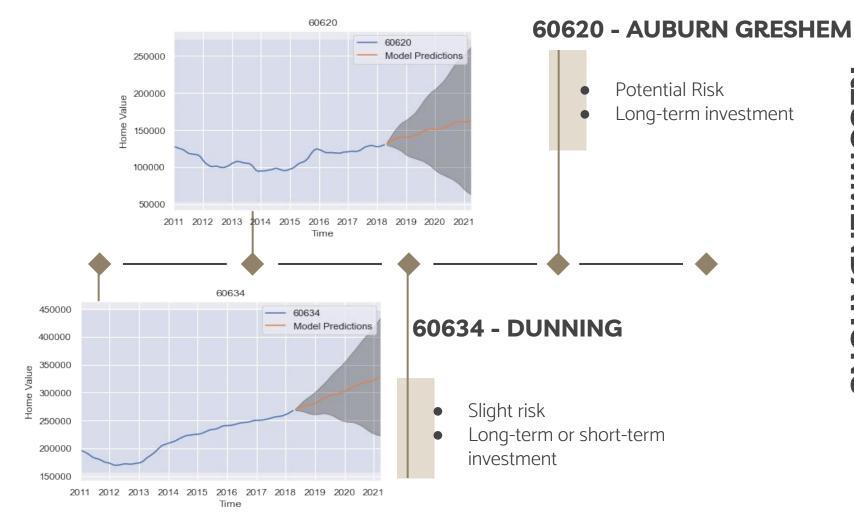
 Decomposable time series model that accounts for trends, seasonality.

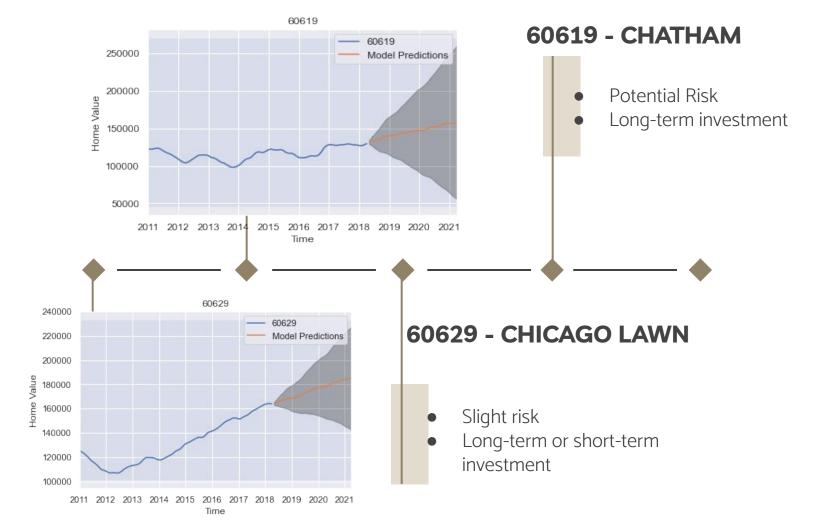


3 YEAR PREDICTED RETURNS AND HOME VALUES

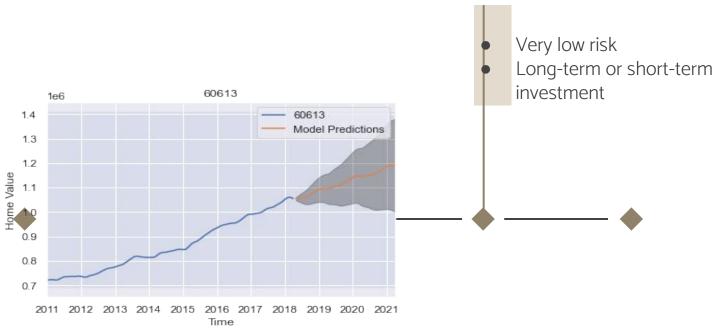
	AUBURN GRESHEM 60620	<u>DUNNING</u> <u>60634</u>	<u>CHATHAM</u> <u>60619</u>	<u>CHICAGO</u> LAWN 60629	BOYSTOWN / LAKEVIEW 60613
3 Year ROI	25.1%	23.1%	21.97%	12.94%	12.73%
5 Year ROI	40.9%	38.4%	35.4%	22.05%	21.55%







60613 - BOYSTOWN / LAKEVIEW



RECOMMENDATIONS



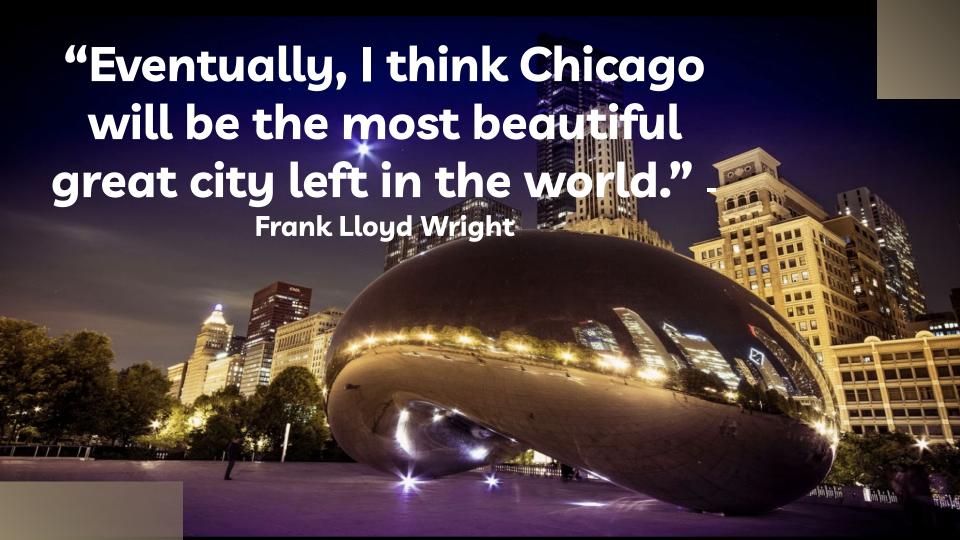


Low Risk

- 60613 Boystown / Lakeview
- 60634 Dunning
- 60629 Chicago Lawn

Potential Risk

- 60620 Auburn Greshem
- 60619 Chatham



DOES ZIP
CODE
HISTORICAL
ROI MODEL
THE SAME?

WOULD ECONOMIC CRASH YEARS CHANGE PREDICTIONS?

OTHER LOCATIONS

NEW ORLEANS MICHIGAN TAMPA NEW YORK

OUR TEAM THANKS YOU!



