Confidential

Airbnb and the Denver Housing Market

DSI-822 Capstone Project - Logan Marett

Problem Statement

The city of Denver has seen a dramatic increase in population in recent years, and does not have the supply needed to provide affordable housing to its residents.

Meanwhile, Airbnb has exploded onto the market since its first listing in 2009 where it has roughly 6,000 active listings.

The goal of this project is to analyze the trends and predict future housing costs, and determine if Airbnb needs to reduce its scope here.





2.34M

2009 Population

2.90M

2022 Population

\$891

2009 Average Rent

\$1,659

2022 Average Rent

1

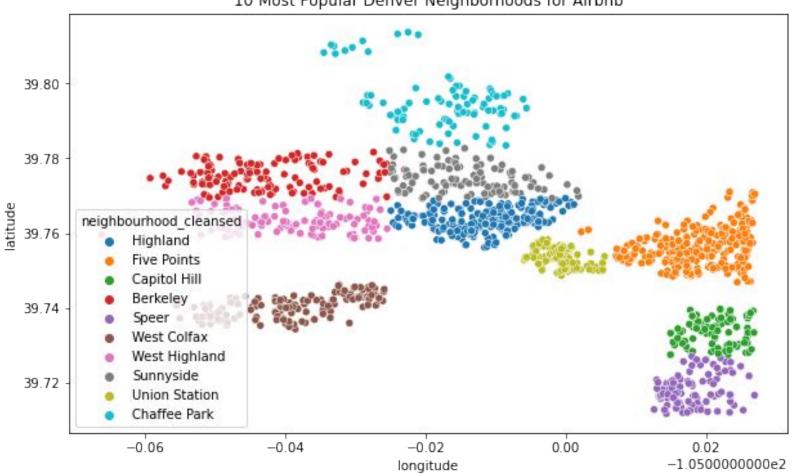
Airbnb Listing

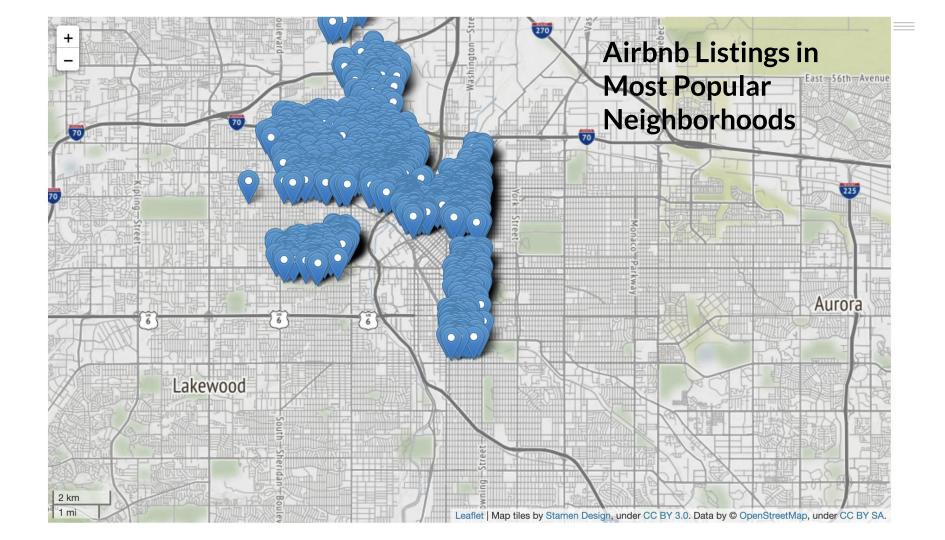
5,836

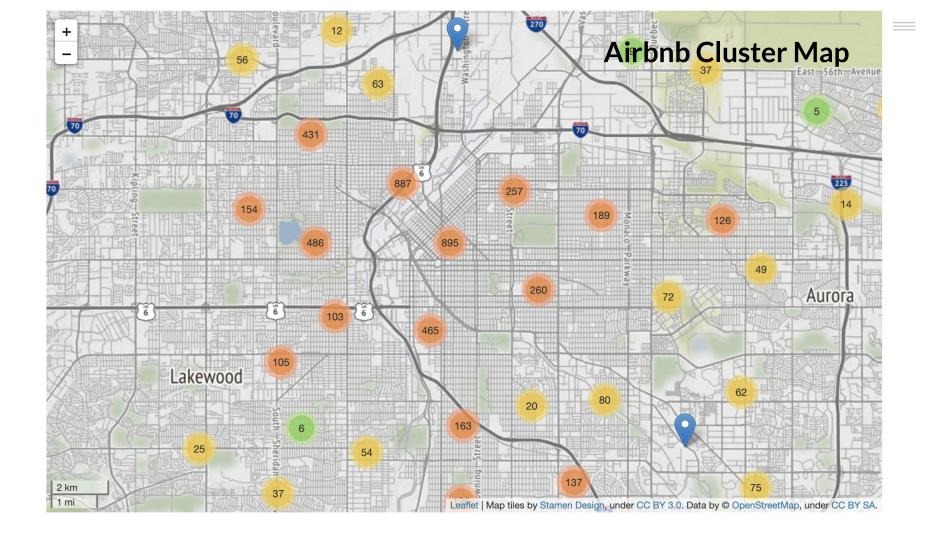
Airbnb Listings

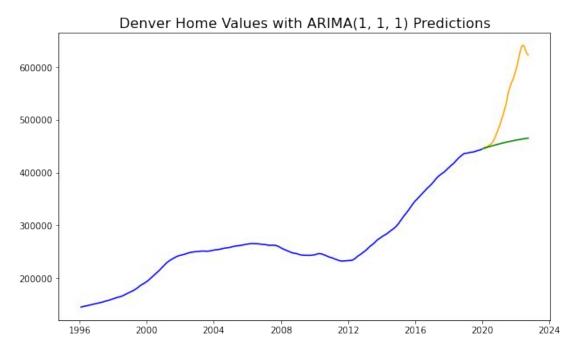
neighbourhood_cleansed

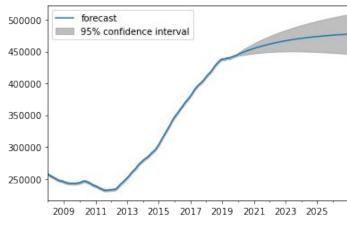
10 Most Popular Denver Neighborhoods for Airbnb

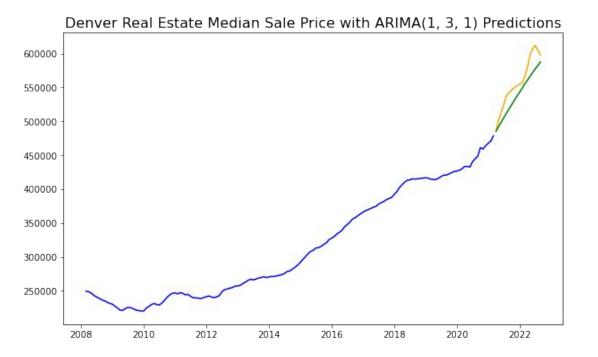


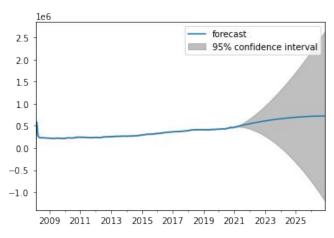


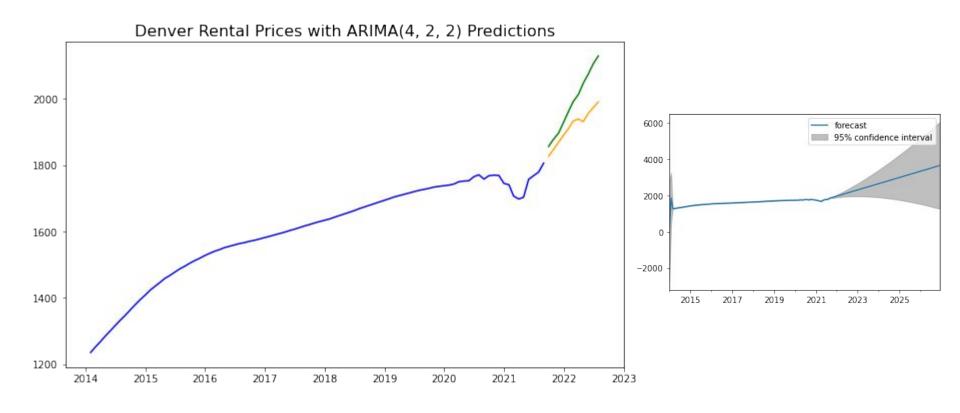












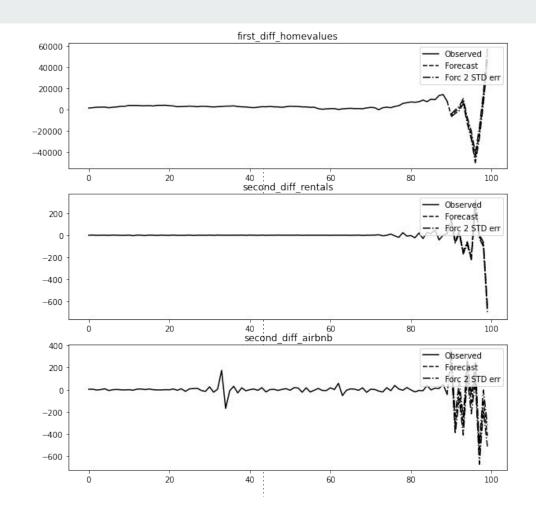


0.045

Airbnb Correlation with Home Values

-0.105

Airbnb Correlation with Rental Prices



Next Steps

- Incorporate more data
- Statistical analysis
- Other Time Series models



Thank you.

