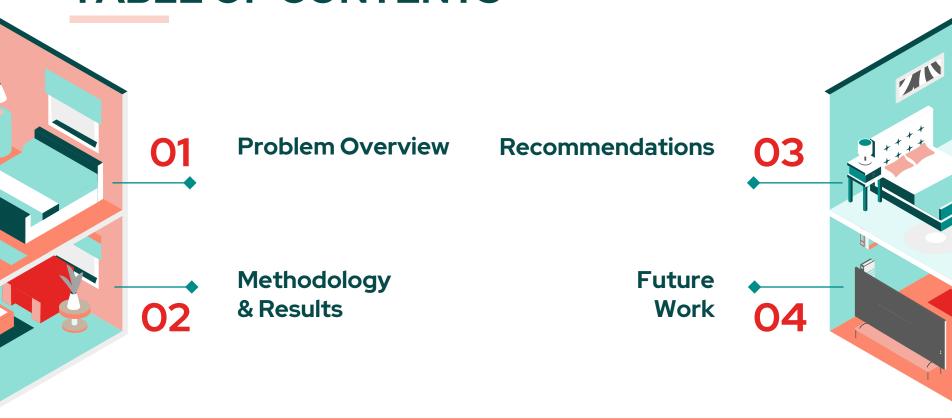


Airbnb in Music City

An analysis on the relationship between Airbnb's presence and the boom in home prices in Nashville

> Samantha Knee April 14, 2021

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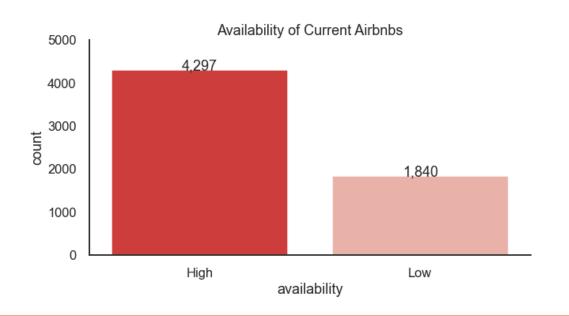
BUSINESS PROBLEM

- Extreme growth in Nashville
- 6,000+ Airbnbs
- Majority non-owner occupied

Representation of Current Airbnbs in Nashville



BUSINESS VALUE



- Help the city of Nashville with policy
- Help residents of Nashville understand the trends

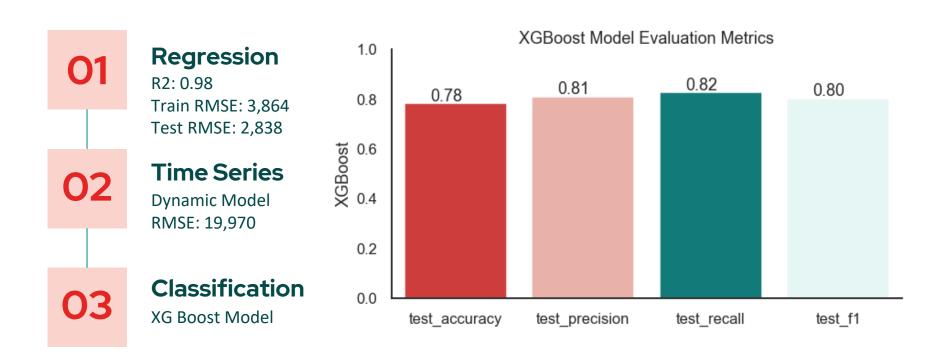
METHODOLOGY



- Inside Airbnb and Zillow Data
- 2015 Feb 2021

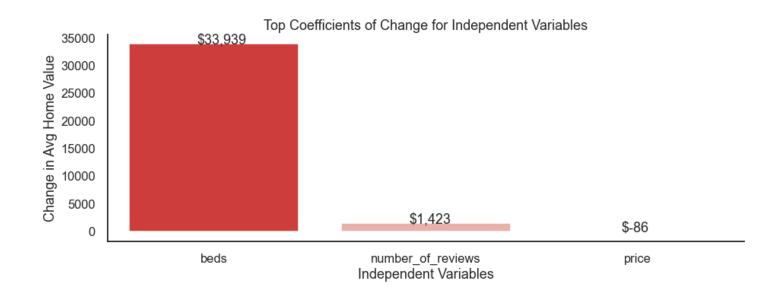
- Regression: Is there a significant relationship between home values and Airbnbs?
- Time Series: Can we predict future home values?
- Classification: Can we predict if an Airbnb will be non-owner occupied?

RESULTS



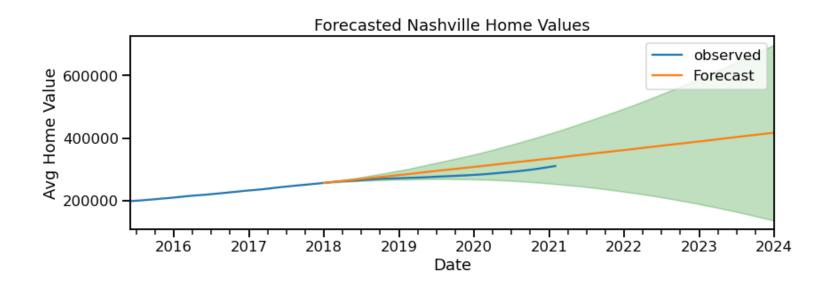
RECOMMENDATION 1

Limit the number of beds in an Airbnb.



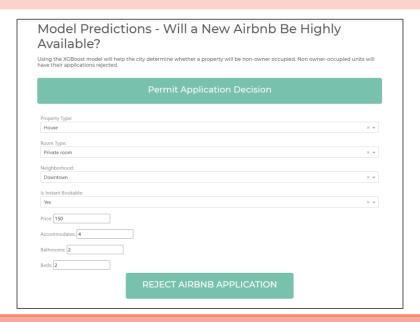
RECOMMENDATION 2

Use time series model to make decision to buy a house.

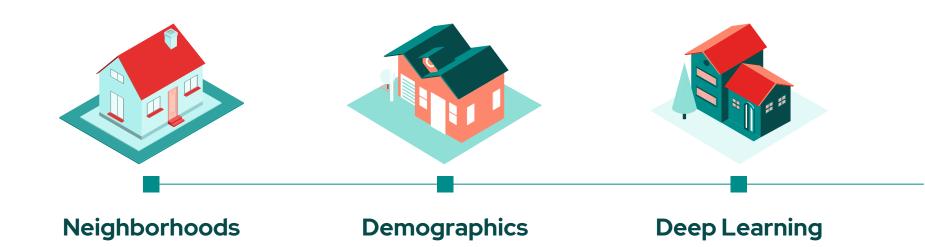


RECOMMENDATION 3

Use classification model to approve or reject Airbnb permits.



FUTURE WORK



THANKS

Do you have any questions?

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https://nash-airbnb-app.herokuapp.com/

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