
AirBnB Price Prediction System

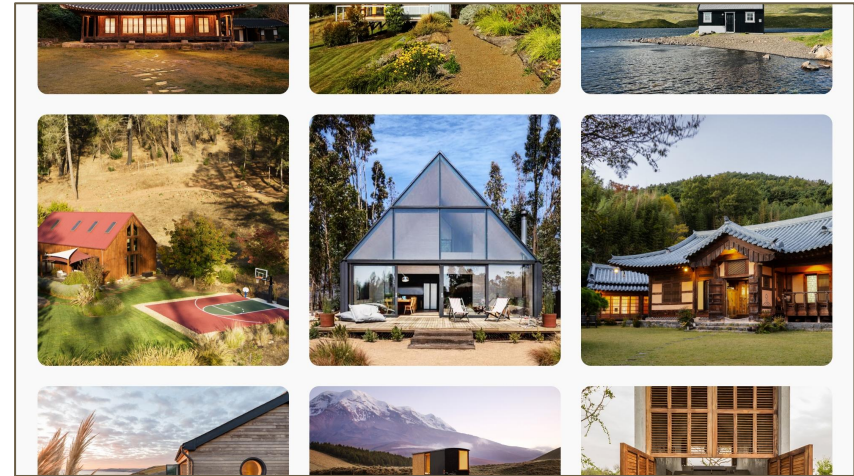
Phase V Final Project
Presented: Skye Jeanat

Agenda

- 🏠 About the Stakeholder
 - 🏠 Data Set Details
 - 🏠 Top Performing Models
 - 🏠 Summary
Recommendation
 - 🏠 Questions?
 - 🏠 Streamlit Exercise
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About the Stakeholder

- 🏠 New AirBnB Homeowner
- 🏠 Located in Asheville, Nashville, or Austin
- 🏠 Max 6 bedrooms
- 🏠 Offers an entire home/apartment or private room



Data Set Details

△ Asheville:

△ Calendar Data:

- △ 958,490 rows
- △ 7 columns
- △ 12/2021 - 12/2022

△ Listings Data:

- △ 2,626 rows
- △ 74 columns

△ Nashville:

△ Calendar Data:

- △ 2,320,689 rows
- △ 7 columns
- △ 12/2021 - 12/2022

△ Listings Data:

- △ 6,359 rows
- △ 74 columns

△ Austin:

△ Calendar Data:

- △ 4,369,416 rows
- △ 7 columns
- △ 3/2021 - 3/2022

△ Listings Data:

- △ 11,971 rows
- △ 74 columns

Top Performing Model

△ Model Characteristics:

- △ Simple, Random Forest Regressor

△ Asheville Results:

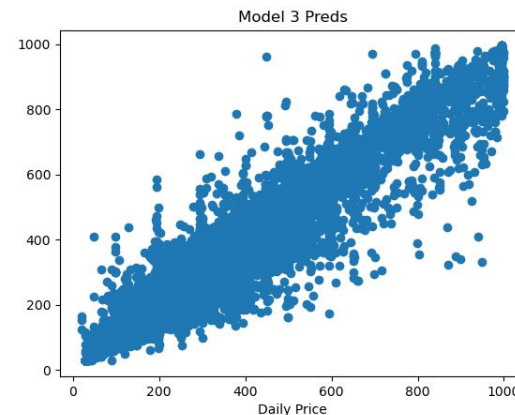
- △ Train MAE - \$2
- △ Test MAE - \$5

△ Nashville Results:

- △ Train MAE - \$5
- △ Test MAE - \$12

△ Austin Results:

- △ Train MAE
- △ Test MAE



Summary and Recommendation

△ Recommendation:

- △ Utilize a simple, random forest regressor model

△ Benefits:

- △ Scientific approach to pricing
- △ Maximize profits

△ Next Steps:

- △ Price impacts, inflation
- △ AirBnB experiences
- △ Additional data



Questions?

Email: sjeanat3@gmail.com

GitHub: <https://github.com/sjeanat3>

LinkedIn: <https://www.linkedin.com/in/skye-jeanat/>

Streamlit Exercise

🏠 Link:

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