

7M+

**Airbnb Listing Worldwide** 

100K+

Cities with Listings

**COMPETITORS** are constantly increasing

**PRICE** is an important concern for host

220+

Countries and Regions with Airbnb Listings

VISDNV



AllTheRooms.





#### The Solution

#### Data

Tokyo Airbnb listing information from InsideAirbnb.com

#### Goal

Predict Airbnb listing price based on features of properties

#### Tools





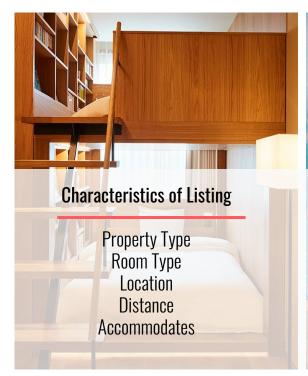








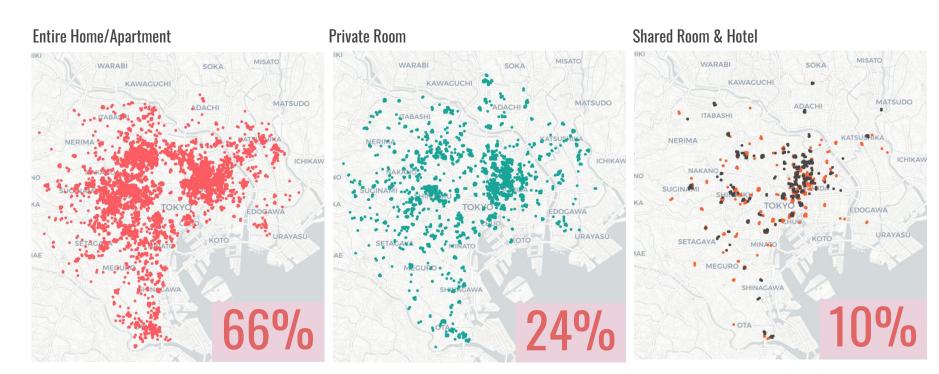
#### **About The Data**







### Room Type



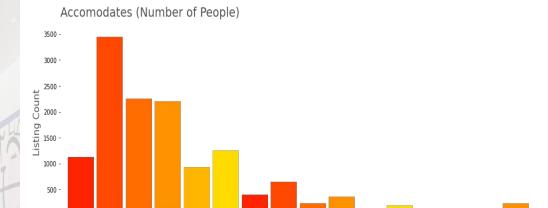
#### **Accommodates**

Most Airbnb accommodates 2 individuals

Accommodating more yields better price



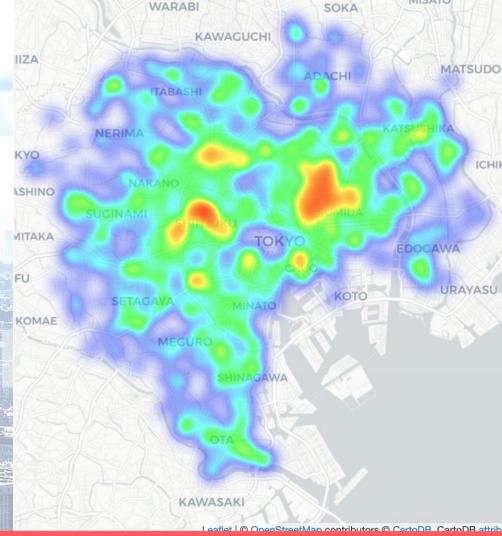
### The More The Merrier

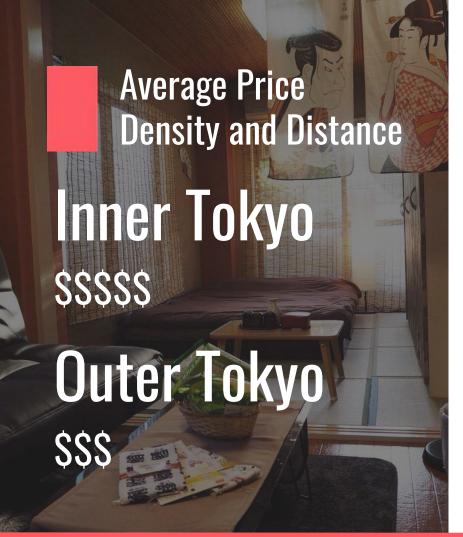


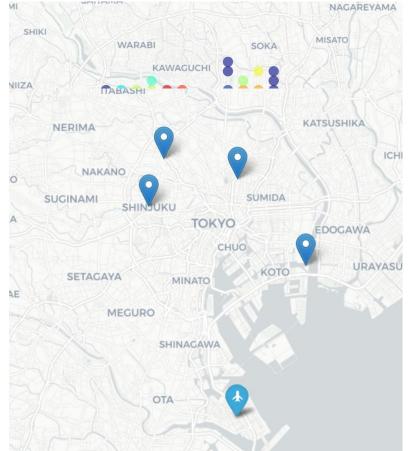












10

9.5

8.5



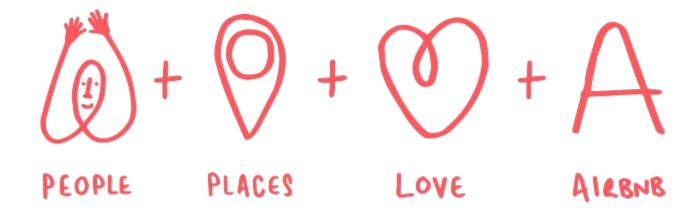
## R-Squared 79%

# RMSE: 9759¥



#### For Future Analysis

Photo Analysis Factor for decision-making of the guest
Natural Language Processing On description and review data
Sophisticated Geoanalysis On Popular Landmarks
Optimize Revenue Price x Number of Bookings



Thank You!

#### Things to Keep in Mind

- 15 Mins presentation
- Your presentation should focus on summarizing your
  - o problem statement,
  - o your **approach**,
  - your <u>findings</u>, and
  - o how it might be used in the future.
- Particularly when presenting to a non-technical audience, remember that what and why can be much more interesting than how:
  - O What are you trying to predict?
  - Why are you doing it? Who cares?
  - What are some predictions your model has made? Where they any good?
  - What will you use it for in the future? Are there limitations or risks?
  - Do not use technical terms unless you can clearly and succinctly define them.
- Note, you will not need to go into *how* you picked your model or *how* you chose your hyperparameters (in fact, usually better to keep hyperparameters just to us data scientists!)
- Try to craft a story/narrative around your project. Don't just dump facts on your audience.
- Have *fun*! This is a celebration of the 12 weeks of hard work that you have done!