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Team Information

Team name: Team Team

Members: Grey Gergen, Tyler Davis, Jesus Rodriguez, Jack Macfadyen

Motivation

There are many considerations that must be made when finding temporary housing, either for vacations or business trips. Airbnb is a popular website that allows individuals or businesses to list potential places for users to choose. These users can choose where they wish to stay based on location, accommodations, how many beds they need, and price. We sought to create a model that predicts the price of an Airbnb listing based on various variables.

Airbnb data has been scraped by a team of contributors and gathered on a website [here](#). Their motivation is to show transparency in how spaces are being rented to tourists in their communities.

When coming across this dataset, we found several missing values in the price of different Airbnb listings. Of the 36111 listings we found 14783 missing prices. We believe that we can use the latitude, longitude, beds, bathrooms, and neighborhood location among other variables to impute the missing pricing data for these listings.

Data Documentation

Data Cleaning

```
# A tibble: 14,077 x 2
  host_id      n
```

```
      <int> <int>
1    3223938    567
2  446820235    330
3   19303369    256
4  533234561    254
5  162280872    241
6   51501835    239
7  200239515    226
8  204704622    215
9   35491667    184
10  22541573    165
# i 14,067 more rows
```