index

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

```
# A tibble: 74 x 4
   Field                Type     Calculated Description
   <chr>                <chr>    <chr>      <chr>
 1 id                   integer  <NA>       "Airbnb's unique identifier for th~
 2 listing_url          text     y           <NA>
```

```
 3 scrape_id             bigint   y         "Inside Airbnb \"Scrape\" this was~
 4 last_scraped          datetime y         "UTC. The date and time this listi~
 5 source                text     <NA>      "One of \"neighbourhood search\" o~
 6 name                  text     <NA>      "Name of the listing"
 7 description           text     <NA>      "Detailed description of the listi~
 8 neighborhood_overview text     <NA>      "Host's description of the neighbo~
 9 picture_url           text     <NA>      "URL to the Airbnb hosted regular ~
10 host_id               integer  <NA>      "Airbnb's unique identifier for th~
# i 64 more rows
```