

Title:

Reputation and Revenue in San Francisco Airbnb Superhosts.

Dataset:

I use the Inside Airbnb dataset for the San Francisco region

(<https://insideairbnb.com/get-the-data/>), which provides detailed information about listings, reviews, and neighborhood boundaries.

Specifically, the project uses:

- **listings.csv.gz** – detailed listing attributes including revenue, occupancy, amenities, and host metadata
- **reviews.csv.gz** – review dates, reviewer information, and review comments
- **neighbourhoods.geojson** – polygon boundaries for San Francisco neighborhoods

The dataset is publicly available to download.

Brief writeup of what you intend to do (5-10 lines)

I would like to investigate the impact of host reputation (i.e., Superhost vs. Non-Superhost status) on the revenue generated by Airbnb listings in San Francisco. I will compare Superhosts and Non-Superhosts across multiple dimensions such as reviews, ratings, and revenue.

The main interactive component will be a San Francisco map where hovering over a neighborhood reveals a small dashboard (two pie charts for room type distributions, average review scores, average revenue, etc.). Clicking on each neighborhood will update two linked visualizations on the right side of the page: a histogram of review score distributions and a scatter plot showing the relationship between review scores and estimated revenue.

Users can also explore the graphs by selecting different sliders/options to see how room type, reputation, and price affect the reviews.

5-6 static visualizations on your dataset







