

## London Airbnb Analysis: Unveiling Insights with Data

This presentation explores key insights derived from an analysis of London Airbnb data. From data cleaning to interactive visualisations, we uncover trends in pricing, popular hosts, and room types across London's diverse neighbourhoods. We will discuss data cleaning, modelling, and visualization.

## Data Preparation: Excel and Power Query

### Excel Cleaning

Initial data cleaning was performed in Excel. This included changing column data types. It also included filling missing values with 0 or N/A. Spell checking errors in the name column fixed.

### Power Query Refinement

Power Query was used for advanced cleaning. Four rows with name errors were removed, ensuring data accuracy.



## Average Price by Neighbourhood

1

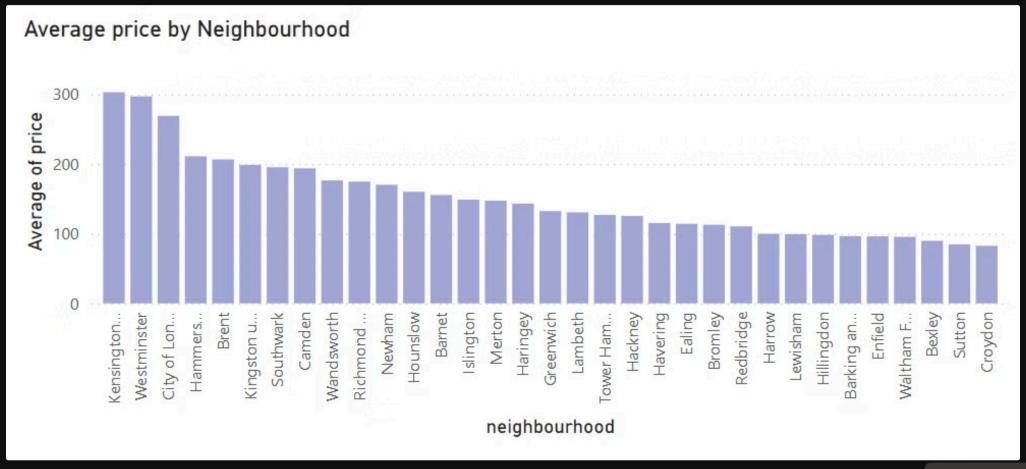
Visualisation of average price by neighbourhood revealed pricing disparities.

2

Kensington and Chelsea emerged as the most expensive. This indicates a high demand and premium listings.

3

Other neighbourhoods will likely be much more affordable.



## Top Hosts by Number of Listings

1 Veronica's Dominance

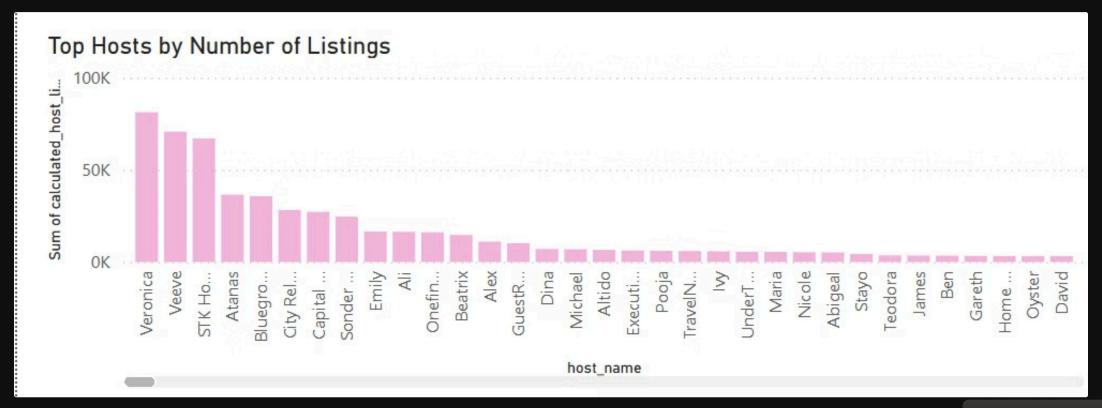
Analysis of listings per host identified top performers.

2 Listing Volume

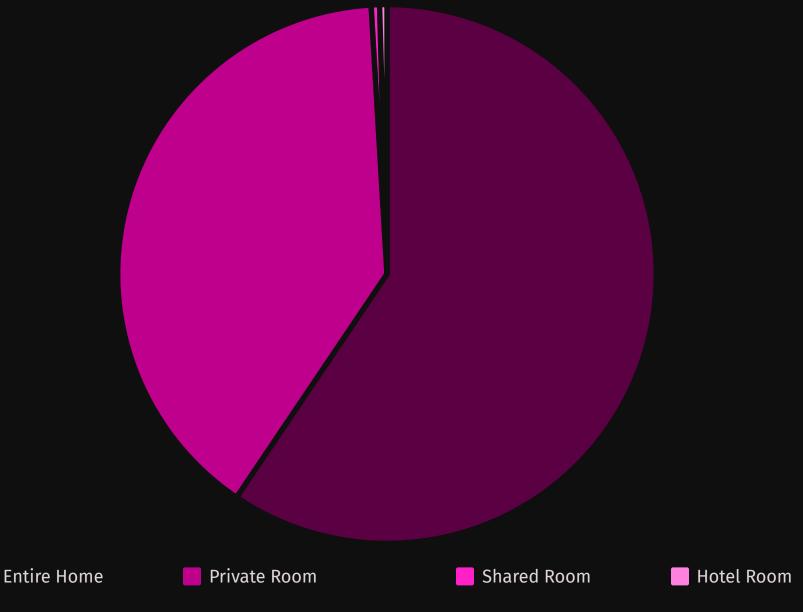
Veronica stood out with the highest number of Airbnb listings in London.

3 Market Influence

This suggests a significant influence in the London Airbnb market.

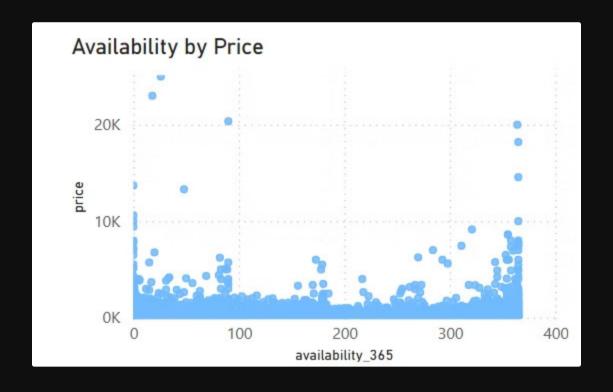


## Room Type Distribution: Pie Chart Insights



The pie chart visualises room type distribution. Entire homes dominate at 59.44%. Private rooms account for 39.62% of listings.

## Availability



A perfect negative correlation. It means that as **price increases**, **availability decreases** in a perfectly inverse manner (or vice versa). This could mean that:

- Listings with low availability (few days open) have higher prices (e.g., luxury stays with limited booking windows).
- Listings with high availability (365 days open) have lower prices (e.g., budget accommodations open all year).

## p of Listings by Price Entire h... • Hotel ro... • Private r... • Sh St Albans Cheshunt Watford Loughton Epsom Seveno

# Scatter Map: Listing Prices and Locations

### Visual Mapping

A scatter map displays Airbnb listings across London.

### Pricing Indicators

Listing size corresponds to price, with larger markers indicating higher costs.

### Room Type Differentiation

Colour coding indicates different room types, providing nuanced insights.

# Interactive Filtering: Deeper Data Exploration



The pie chart functions as a filter.



Clicking slices reveals host and neighbourhood data.

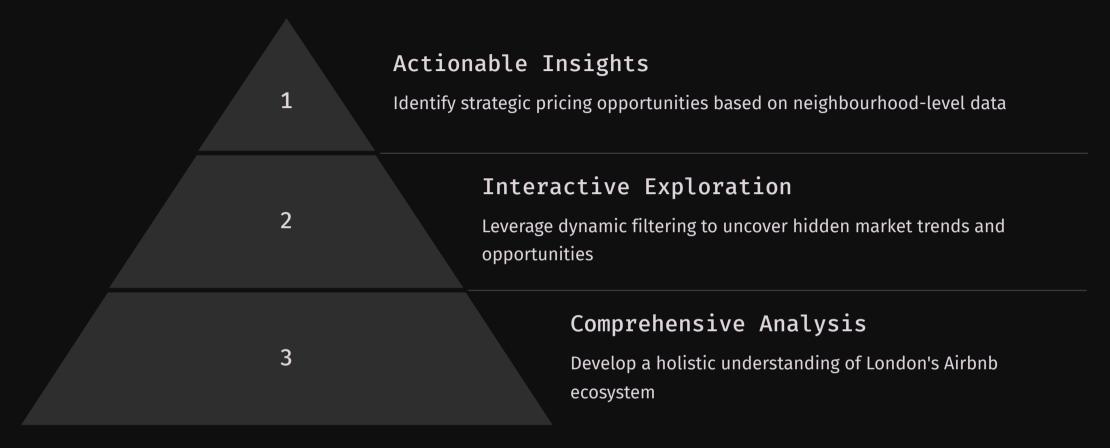


Enables targeted investigation of specific segments.

For example if I only wanted to see Hotel rooms you can see what hosts offer them as well as in what neighborhoods and how expensive they are on average.



## Key Takeaways and Next Steps



Our comprehensive analysis of London's Airbnb market reveals critical insights into pricing dynamics and accommodation trends, leveraging advanced data tools like Excel, Power Query, and Power BI.

For **hosts**, the data provides strategic advantages: optimizing pricing strategies, identifying high-demand neighborhoods, and tailoring listings to market preferences. **Travelers** benefit from detailed insights into affordable locations and diverse accommodation options.

Key data points on **room type demand, minimum stay patterns, and guest reviews** offer valuable guidance for enhancing both hosting effectiveness and traveler experiences.