






Project Summary: Airbnb Listing Analysis

I worked on analyzing Airbnb listing data to uncover valuable insights about property prices, room types, and customer behavior. The dataset included over 100,000 records with various details like location, host information, pricing, reviews, and availability.

What I Analyzed:

-  Distribution of listing prices across different ranges
 -  Room type distribution and popularity among listings
 -  Listing distribution across neighborhood groups in New York
 -  Relationship between room type and price
 -  Time-based trend analysis of reviews
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Key Insights and Findings:

Price Distribution:

The histogram revealed that listings have a wide range of prices, without a strong concentration around any specific price point.

Room Type Popularity:

Entire homes/apartments were the most commonly listed and booked room types, followed by private rooms.

Neighborhood Analysis:

Manhattan and Brooklyn had the highest number of listings, suggesting these are the most popular areas for hosts and travelers.

Room Type vs. Price:

Luxury listings like entire apartments tend to have significantly higher prices compared to shared or private rooms.

Review Trends Over Time:

Review counts over time helped track the growth and popularity of listings. Peaks indicated seasonal trends and periods of higher engagement.

Final Conclusion:

This analysis shows that:

- Room type and pricing significantly influence listing popularity
- Neighborhoods like Manhattan attract more listings and potential bookings
- Lower-priced and discounted listings tend to receive more user interaction
- Seasonal trends play a role in customer reviews and activity

Platforms like Airbnb can use these findings to improve host recommendations, pricing algorithms, and customer targeting strategies.