

Analyzing Airbnb Data of New York

This Databricks project is a case study aiming to provide actionable strategies to gauge demand and improve host performance with data-driven precision. It is based in rental data listed in an Airbnb dataset for New York between 2003 and 2022.

It involved exploring and cleaning the Airbnb dataset, and next building visualizations and dashboards in the platform.

Microsoft Azure databricks

Search data, notebooks, recents, and more...CTRL + P

databricks

New

Workspace

Recents

Catalog

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Marketplace

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Queries

Dashboards

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Query History

SQL Warehouses

Data Engineering

Job Runs

Data Ingestion

Pipelines

Machine Learning

Playground

CanvasData

New Dashboard 2025-04-02 13:26:18 ☆ Draft 52m ago Serverless S

Airbnb Insights Dashboard +

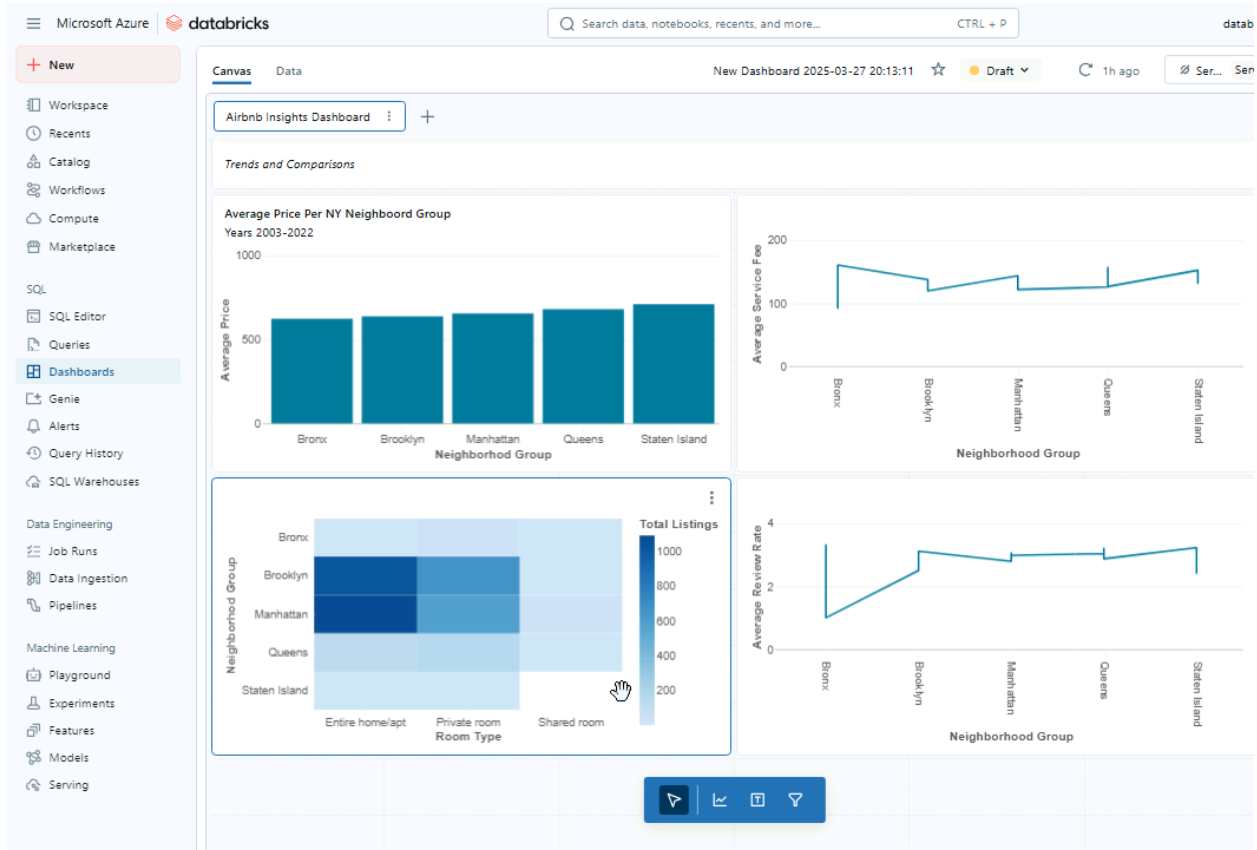
Airbnb Insights - Improve Host Performance Overview

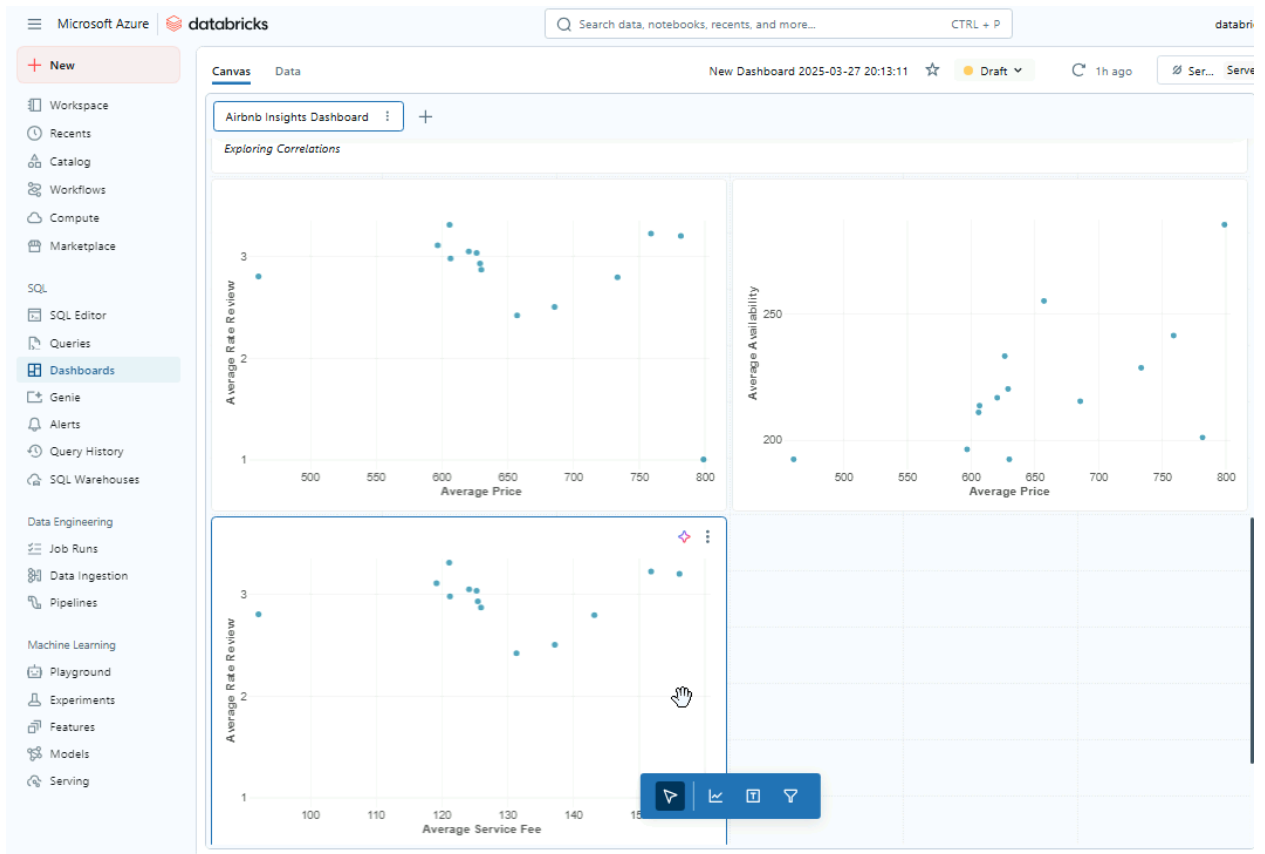
Key Metrics

Total Listings	3,757
Average Price	616.86
Total Earnings	27.81M

Detailed Data

standardized_neighborhood_group	room_type	average_price
Queens	Private room	626.651
Manhattan	Shared room	733.667
Manhattan	Private room	620.744
Bronx	Private room	606.115
Queens	Shared room	781.800
Brooklyn	Shared room	685.875
Manhattan	Entire home/apt	606.844
Queens	Entire home/apt	630.197
	Entire home/apt	461.000





Dashboard Analysis Summary

- The heatmap shows Manhattan had the highest total availability for 'Entire home/Apt' and the line chart shows that neighborhood had the lowest service average fee. Brooklyn had highest total availability for 'Private room'.

Actionable insights

- Brooklyn and Manhattan lead in revenue generation and increasing the number of listings in these high-demand areas could further capitalize on their potential.
- Listings with higher services fees tend to have higher review rates, indicating higher service fees may positively impact customer satisfaction.

This can be used to guide pricing and fee strategies based on information shown in the scatter plots (Price vs Review Rate, Price vs Availability, and Review Rate vs Service Fee)