Project: Airbnb Price Prediction

- **Objective: Predict Airbnb listing prices based on location, amenities, and host reputation.**

- **Dataset: [Airbnb NYC Listings](#)**

Project Goals:

Data Collection:

- **Import Airbnb listing data for NYC.**

- **Ensure data completeness and accuracy.**

Data Exploration:

- **Identify price variations by neighborhood and room type.**

- **Analyze customer reviews and host response times.**

Data Preprocessing:

- **Remove outliers in pricing data.**

- **Convert categorical features (e.g., amenities) into numerical representations.**

Exploratory Data Analysis (EDA):

- **Visualize price distributions across different locations.**

- **Identify the impact of ratings and reviews on pricing.**

Feature Selection:

- **Train regression models (Linear Regression, XGBoost) to predict prices.**

Conclusion:

Provide pricing recommendations to maximize Airbnb host revenue.