

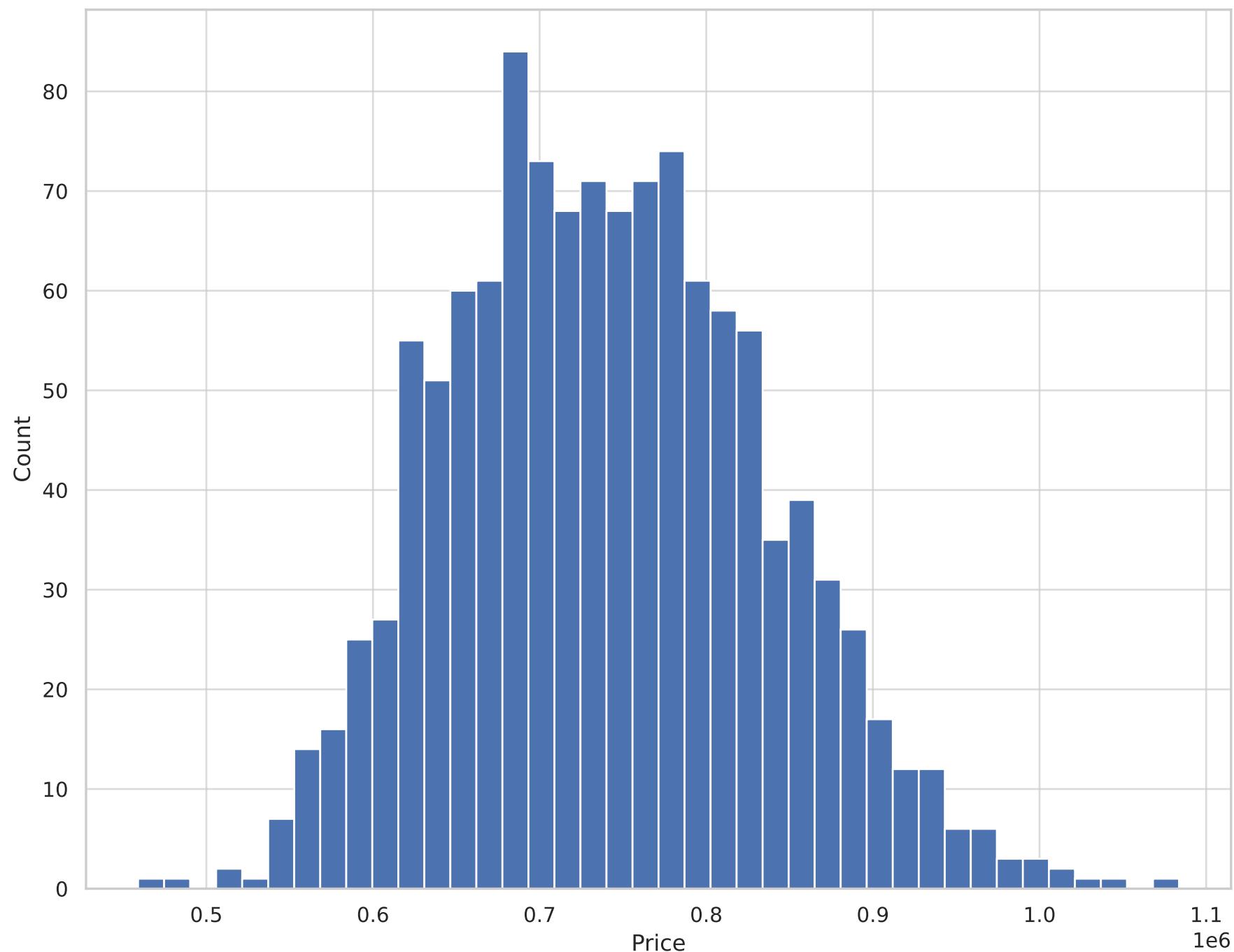
# **House Price Prediction — Project Report**

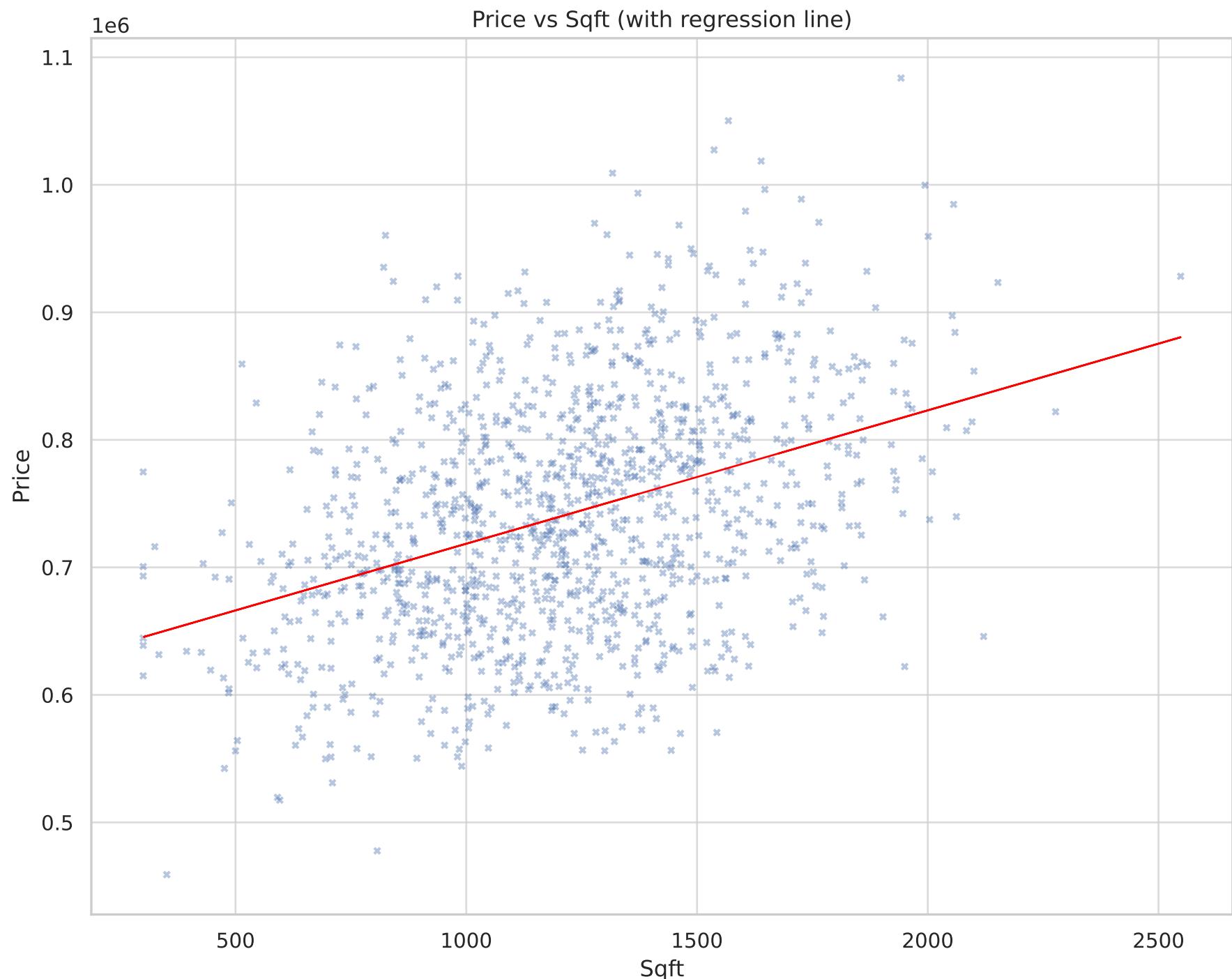
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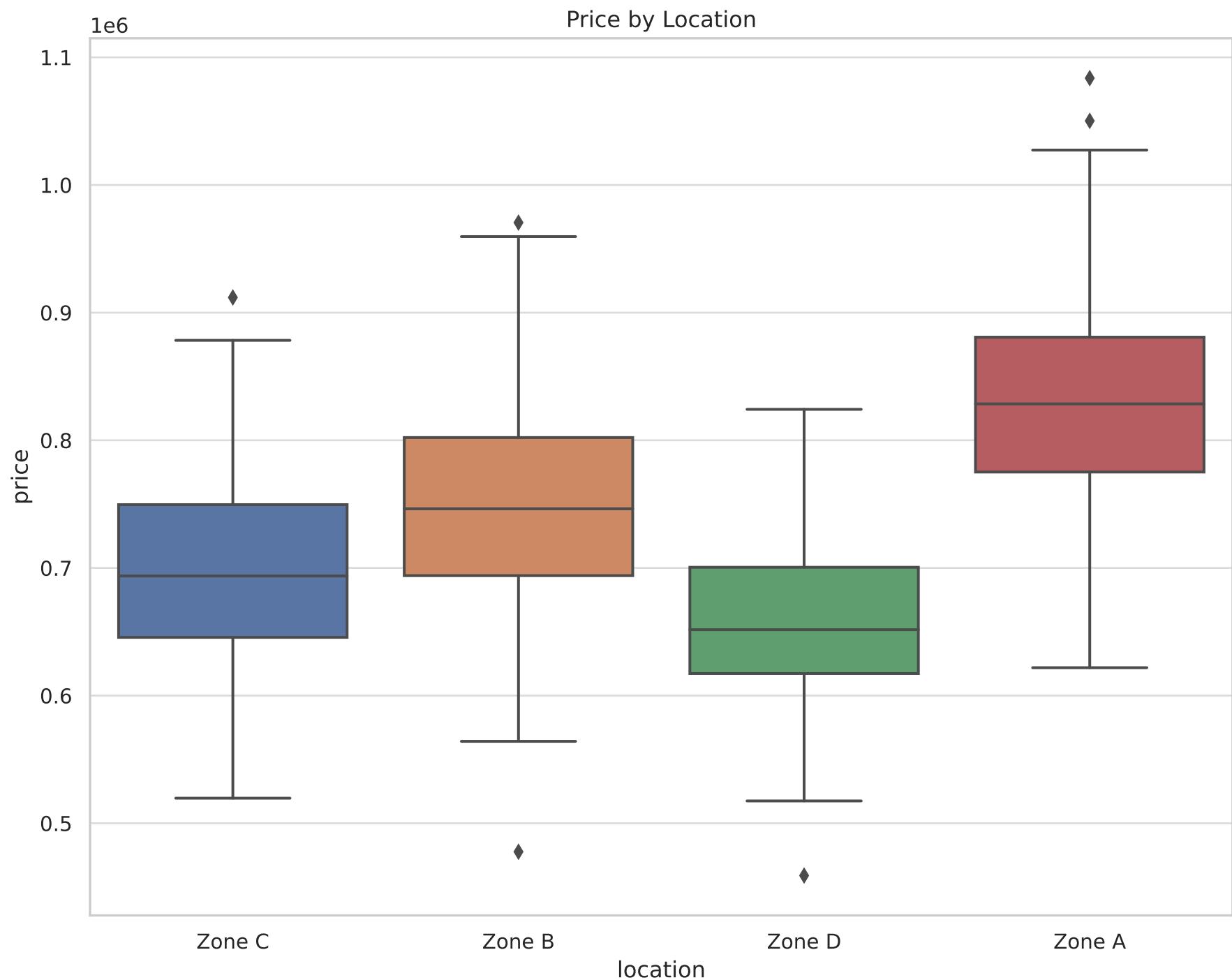
Objective:

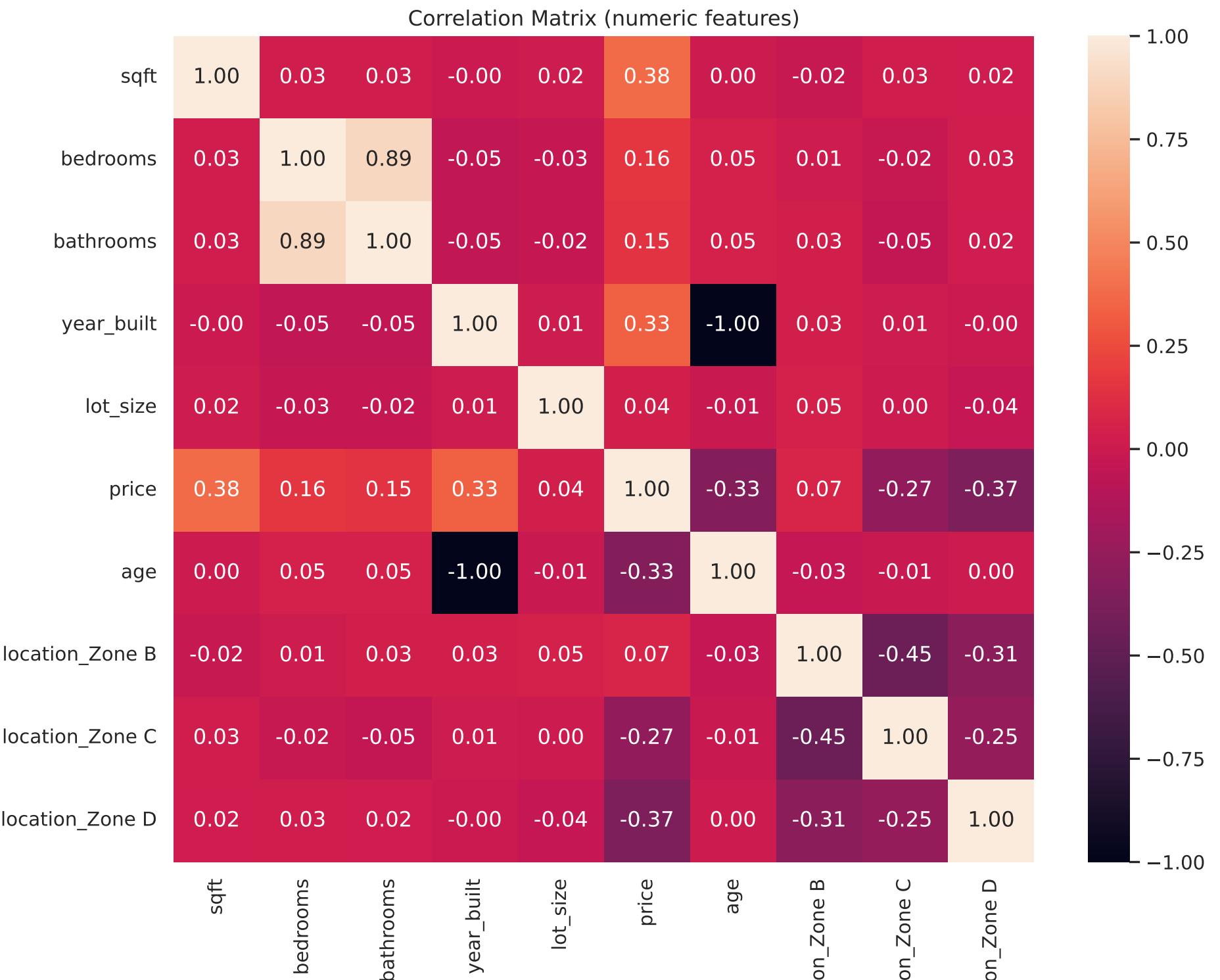
Analyze housing data and build baseline regression models to predict house prices.

## Price Distribution







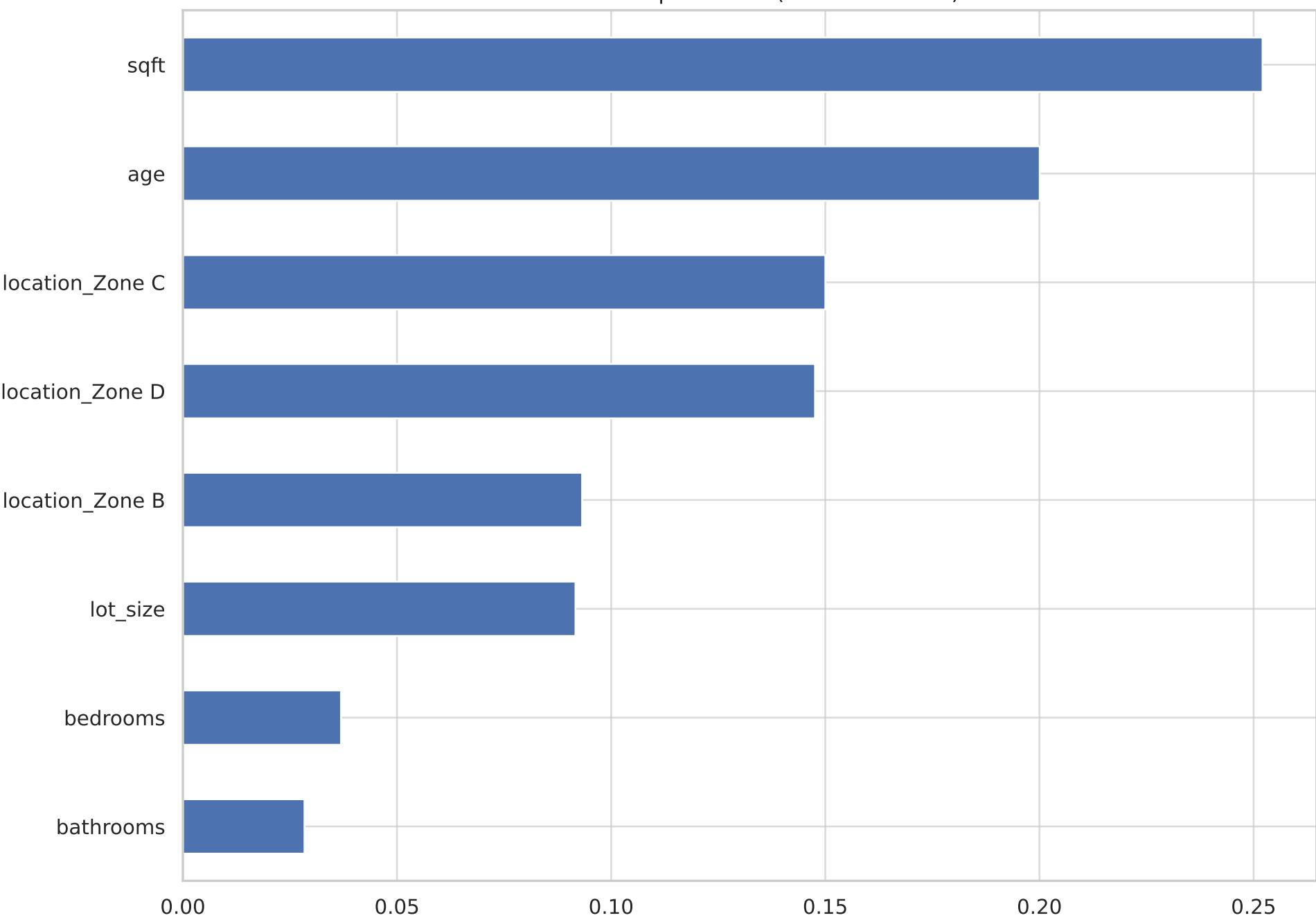


## **Model Evaluation (Test Set)**

Linear Regression - RMSE: 52508.90 | MAE: 42035.63

Random Forest - RMSE: 58588.44 | MAE: 47639.07

Feature Importances (Random Forest)



## **Conclusions & Future Work**

Conclusions:

- Random Forest RMSE: 58588.44, Linear Regression RMSE: 52508.90. Random Forest performs better on this dataset.
- Sqft, bedrooms, and location are key drivers of price.

Future Work:

- Use real-world datasets (Kaggle / regional data) and perform hyperparameter tuning and CV.
- Add geospatial and amenity-based features for better accuracy.