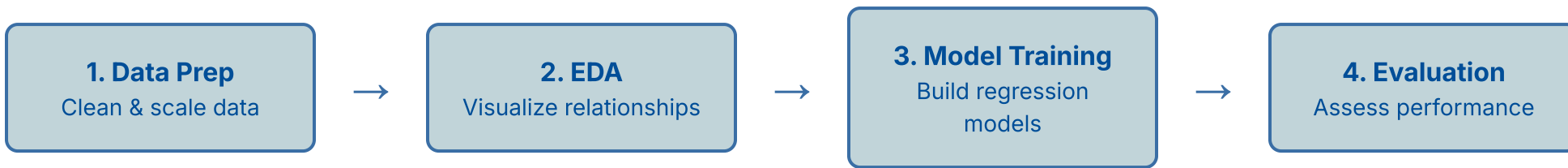


# Decoding Rent Prices

An infographic on building a machine learning model to predict house rents.

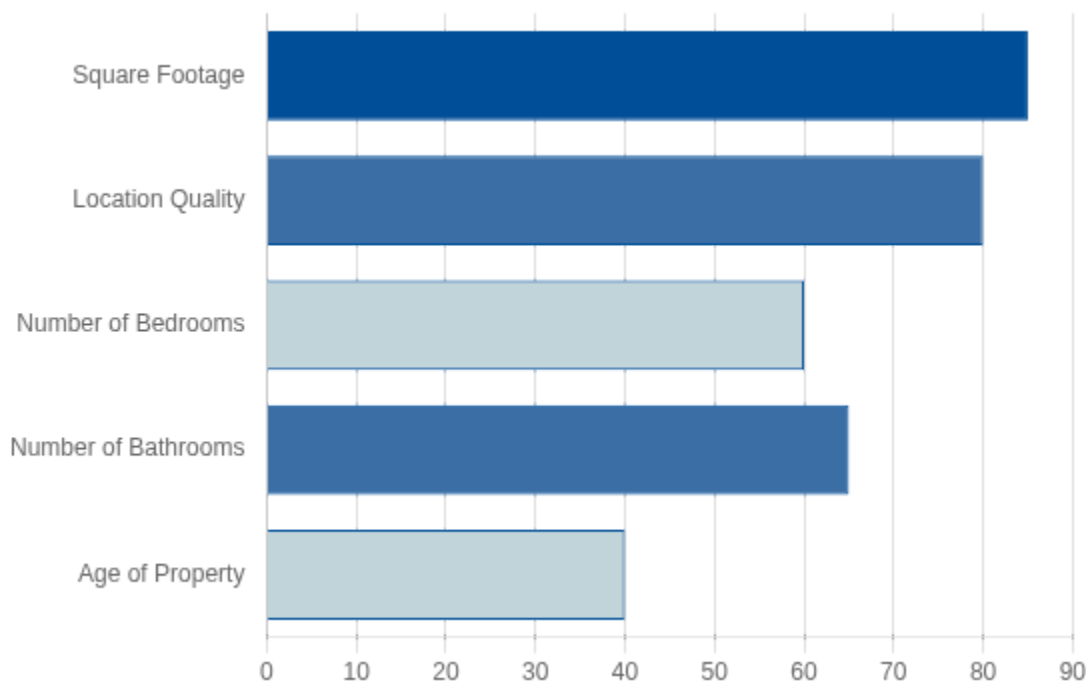
## The Project Pipeline

From raw data to a final prediction, the project follows a structured machine learning workflow to ensure accuracy and reliability.



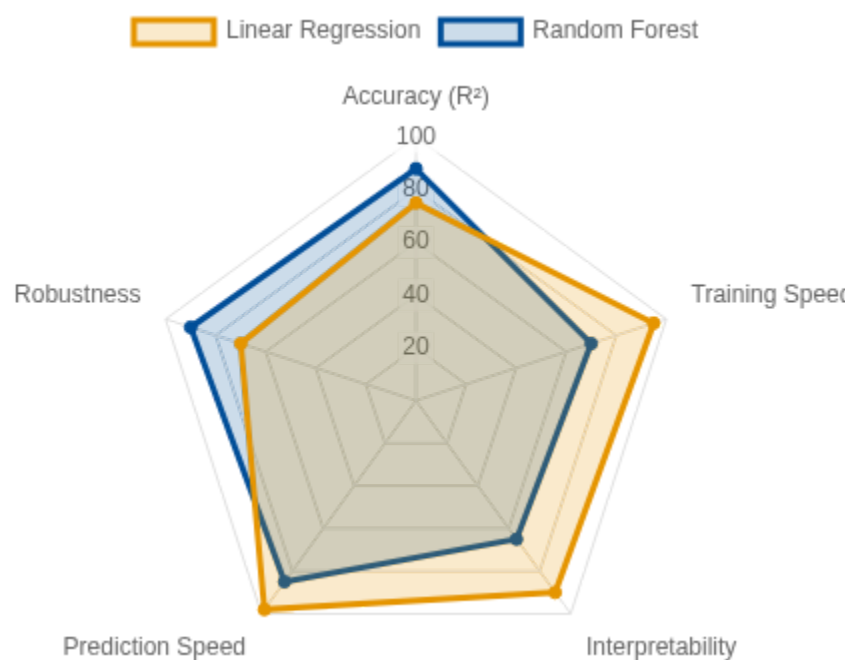
## What Drives the Rent?

Certain features have a greater impact on rental prices. This chart shows an illustrative comparison of how different property attributes might contribute to the final prediction.



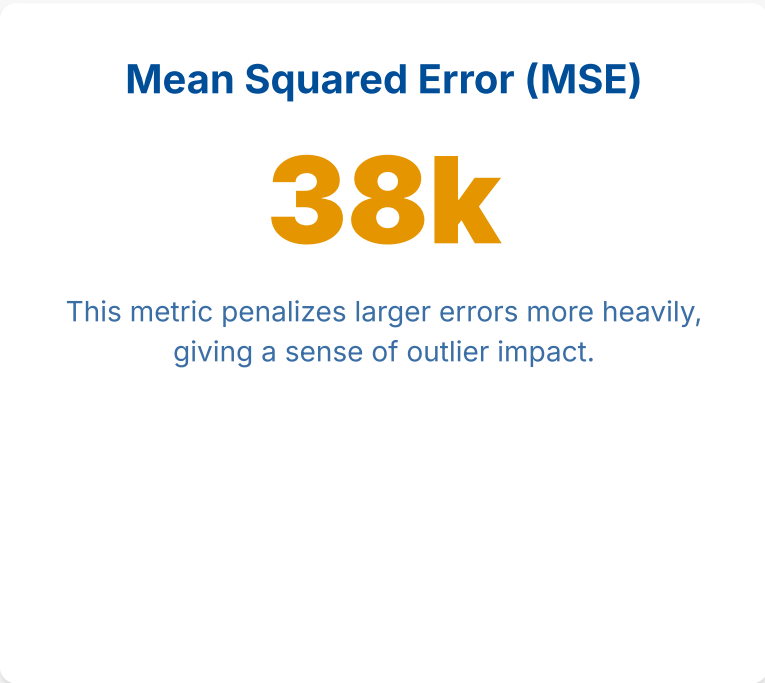
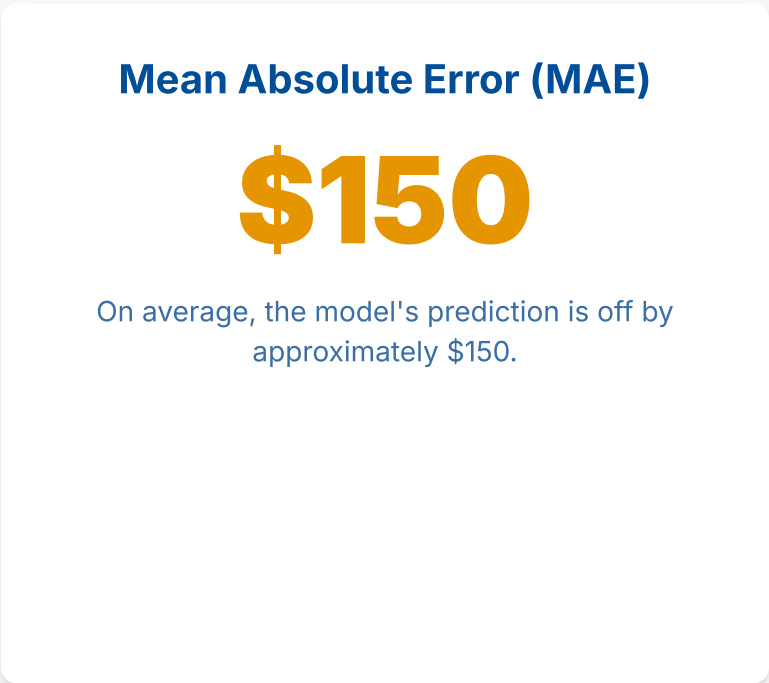
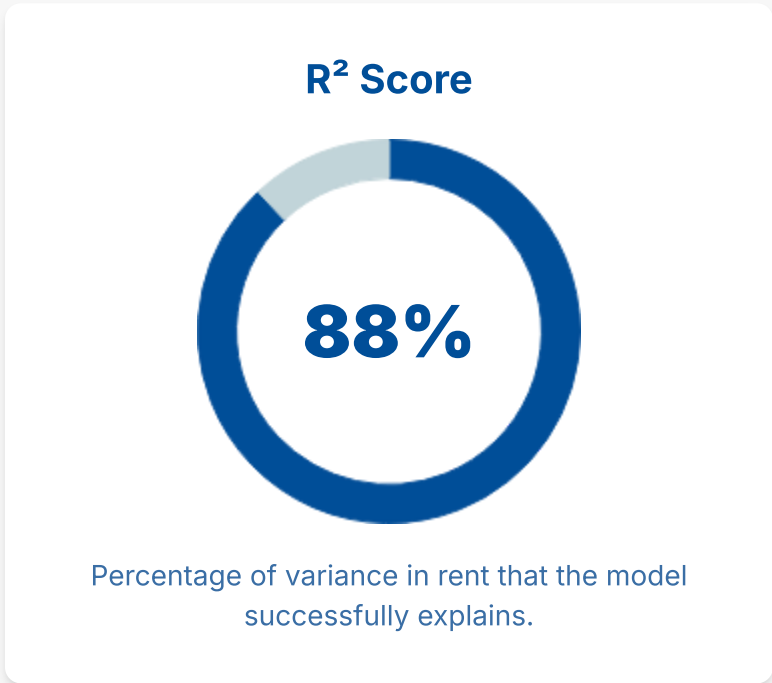
## Choosing the Right Model

Different models offer trade-offs between accuracy, speed, and complexity. A Random Forest model often provides a strong balance for this type of prediction task.



## How Well Does It Predict?

Key metrics help us quantify the model's performance. The  $R^2$  score shows the percentage of rent variation the model can explain, while MAE and MSE measure prediction errors.



## Technology Stack



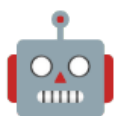
Python



Pandas



NumPy



Scikit-learn



Matplotlib



Flask