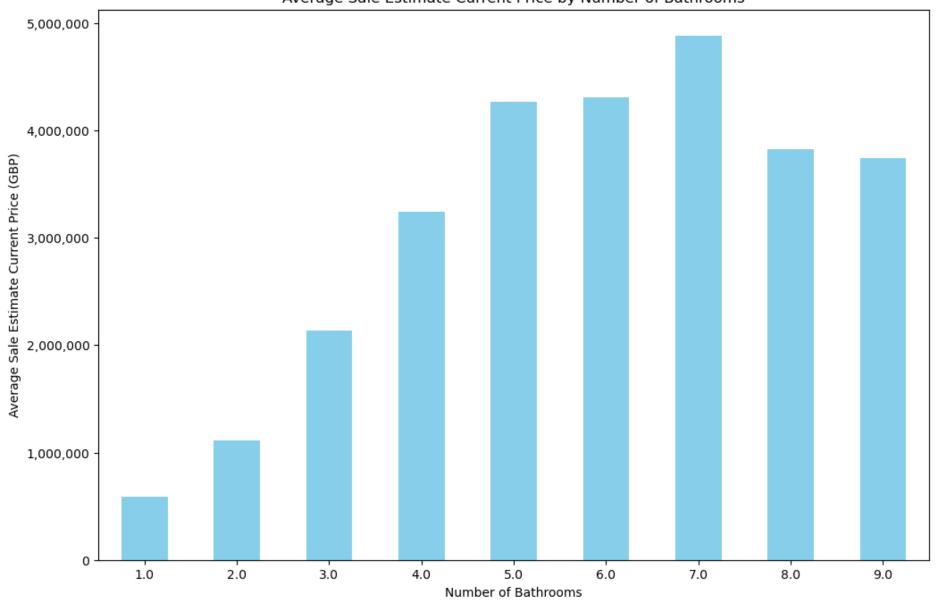
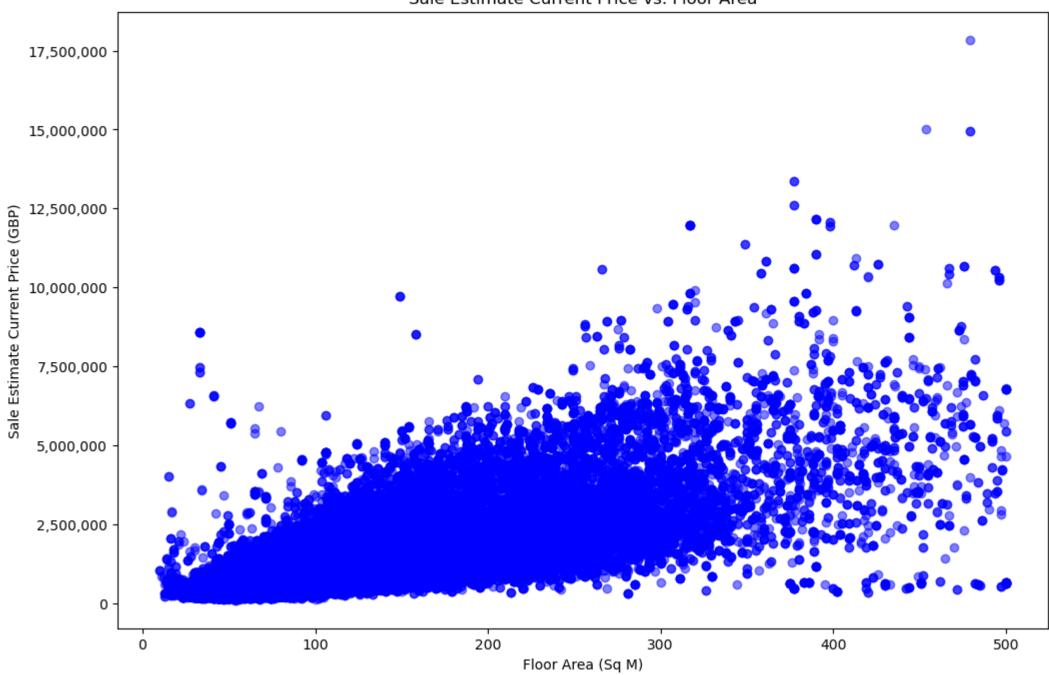
House Price Prediction

Sanjay Raju

Average Sale Estimate Current Price by Number of Bathrooms





Understanding Data

Target is continuous

Linear relationships between features and target

Potential cause and effect present

Linear Regression Model - Baseline



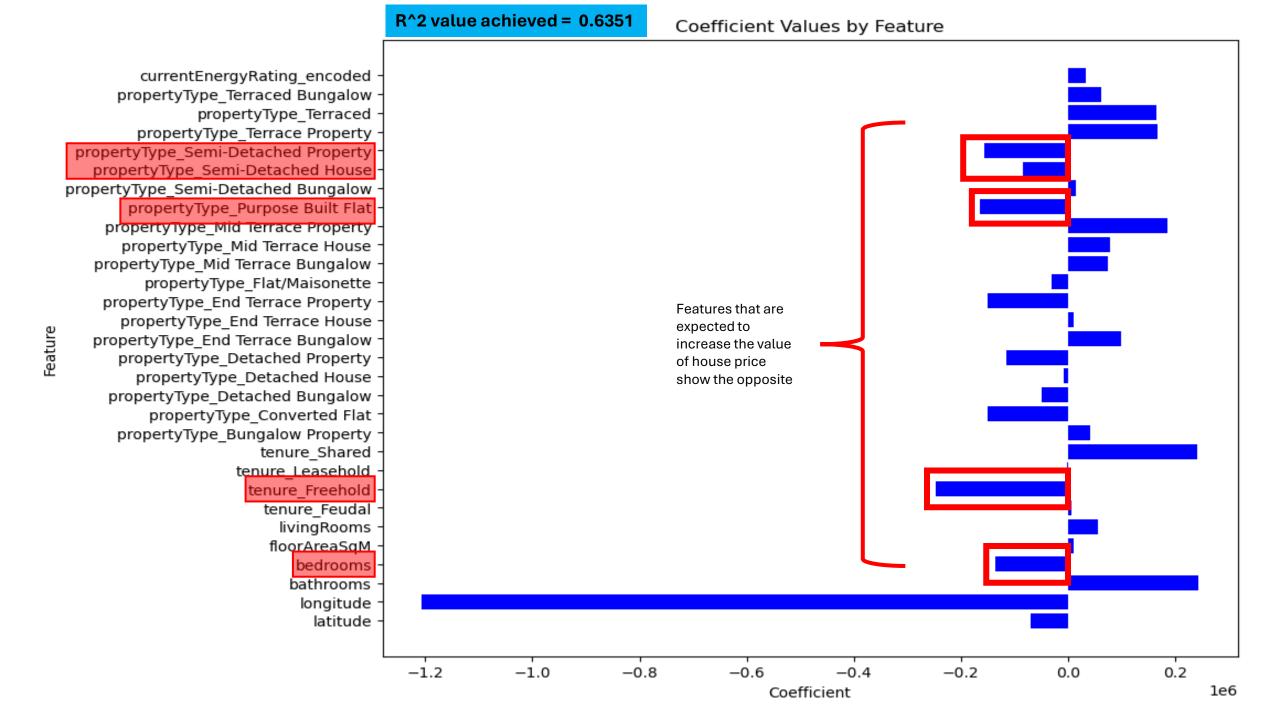
DIRECTLY MODELS PRICE RELATIONS



QUICK INSIGHTS WITH MINIMAL COMPUTATION



BASELINE FOR COMPLEXITY JUSTIFICATION

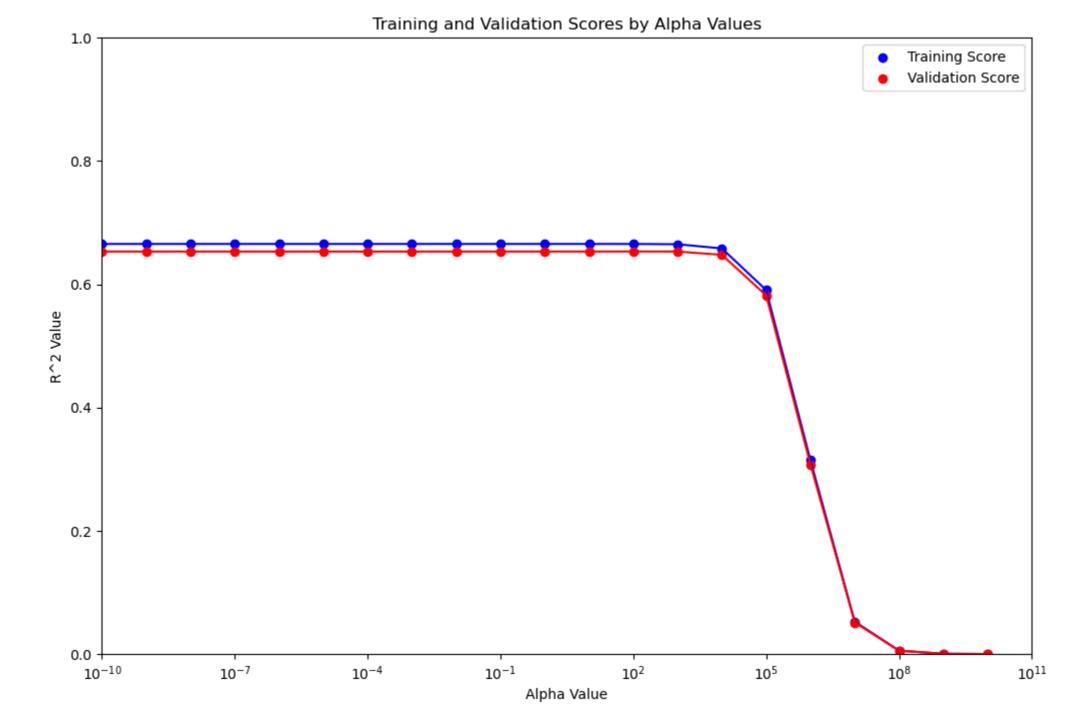


Ridge Regression Model

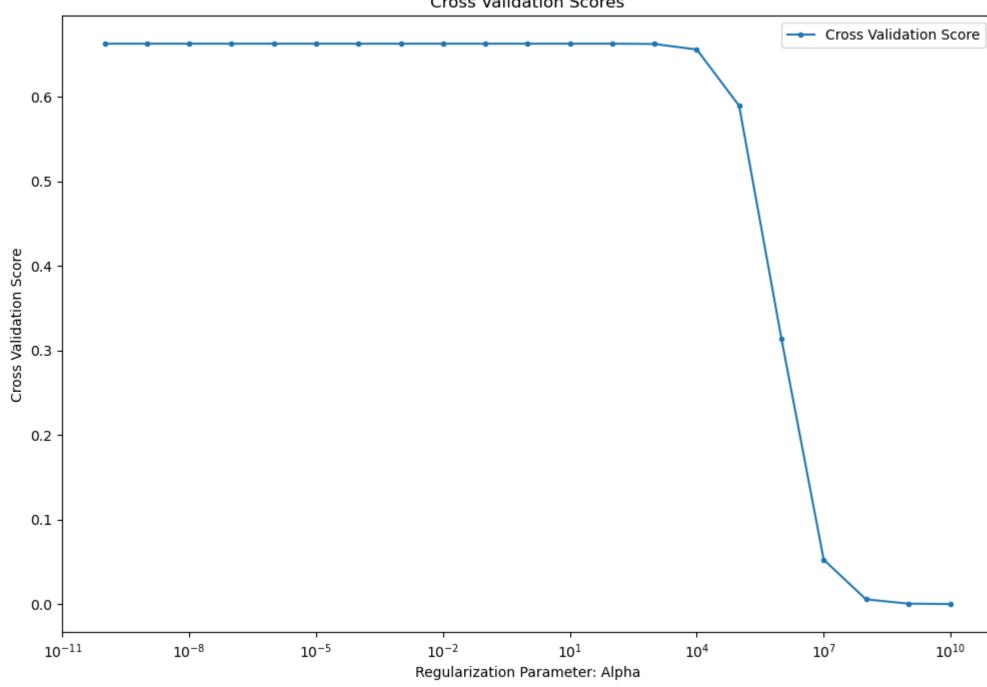
Penalty on Large Coefficients

Stability in High-Dimensionality

Improved Generalization





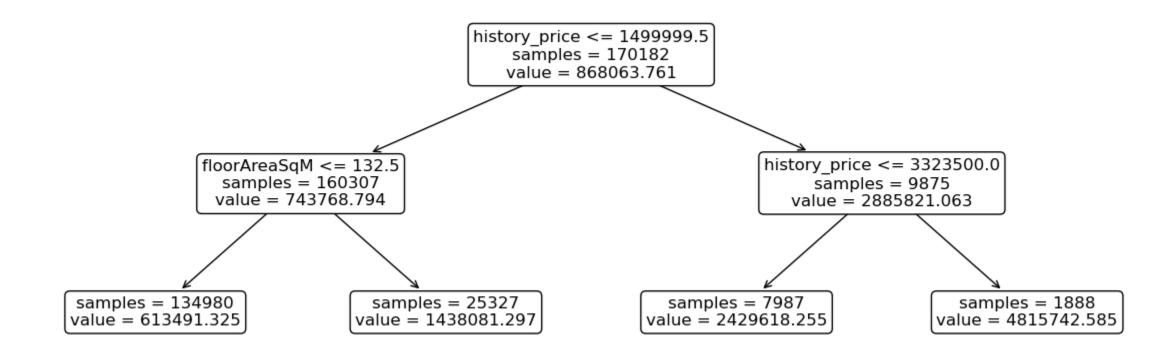


Decision Tree

Non-Reliance on Coefficients

Inherent Feature Selection

Improved
Handling of
Complex Data
Structures



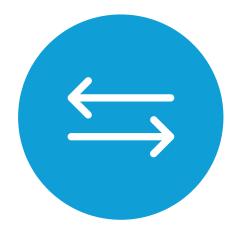
Next Steps



INVESTIGATE MULTI-COLLINEARITY



EVALUATE WHICH FEATURES PROVIDE THE BEST INSIGHT



CONTINUE IMPLEMENTATION OF NON-LINEAR MODELS