



House Price Prediction

Motivation



Primary Data Source



- Alameda County
- Santa Clara County

Bay Area House Data



3900+ entries of Data

Median Household Income in California



Modeling Framework



Predict the House value based on the pre-house sale prices

Key Features

- Home Type
- Bedroom
- Bathrooms
- Home Size
- Parking Lot Num
- House Age
- House Hold Avg Income
- City



Modeling Framework

REMOVE EXTREME VALUES



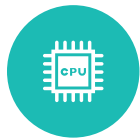
Sold Price

- > 5K
- < 6M



BEDROOM NUM

- =0



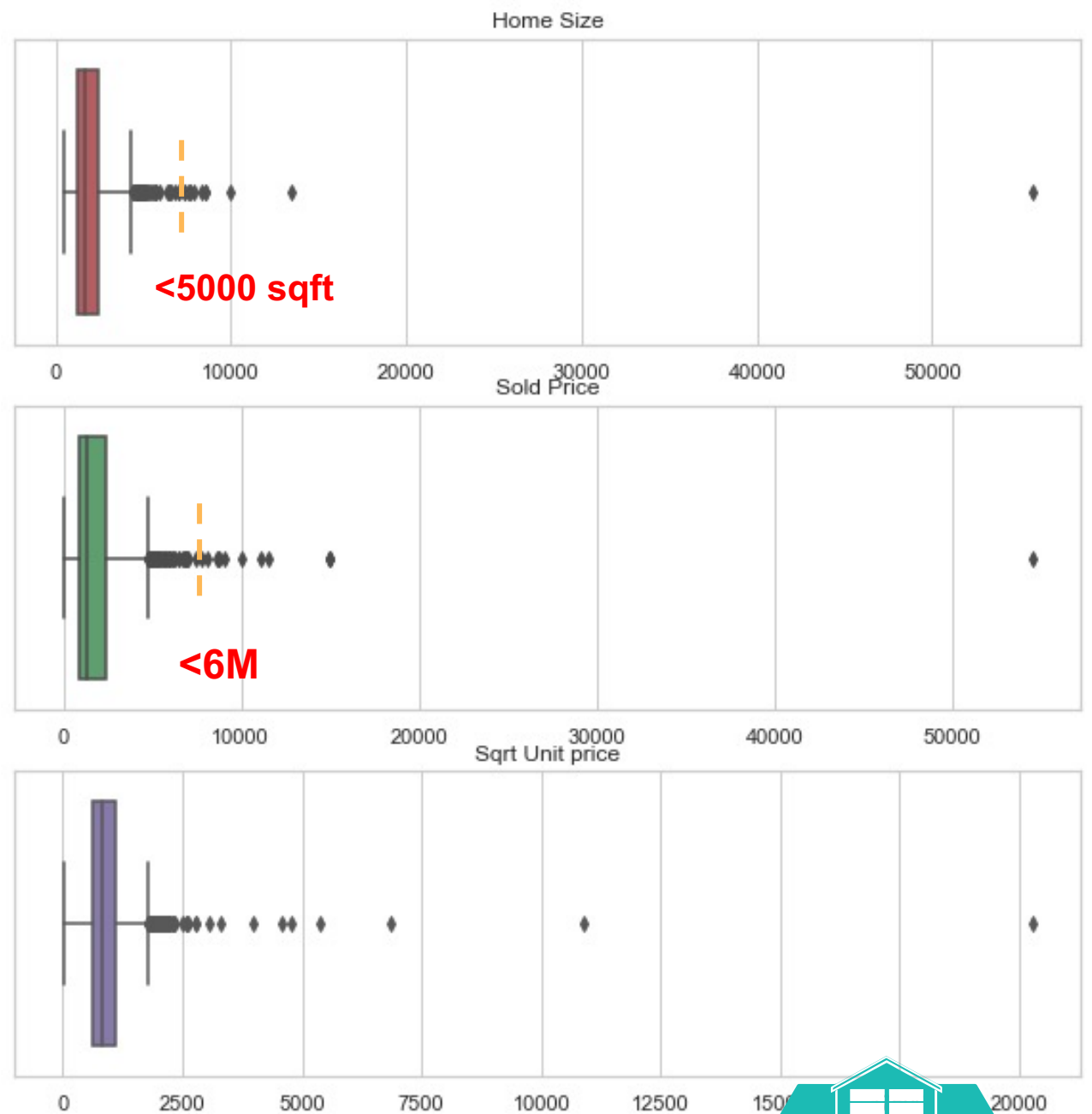
YEAR BUILT

- =0

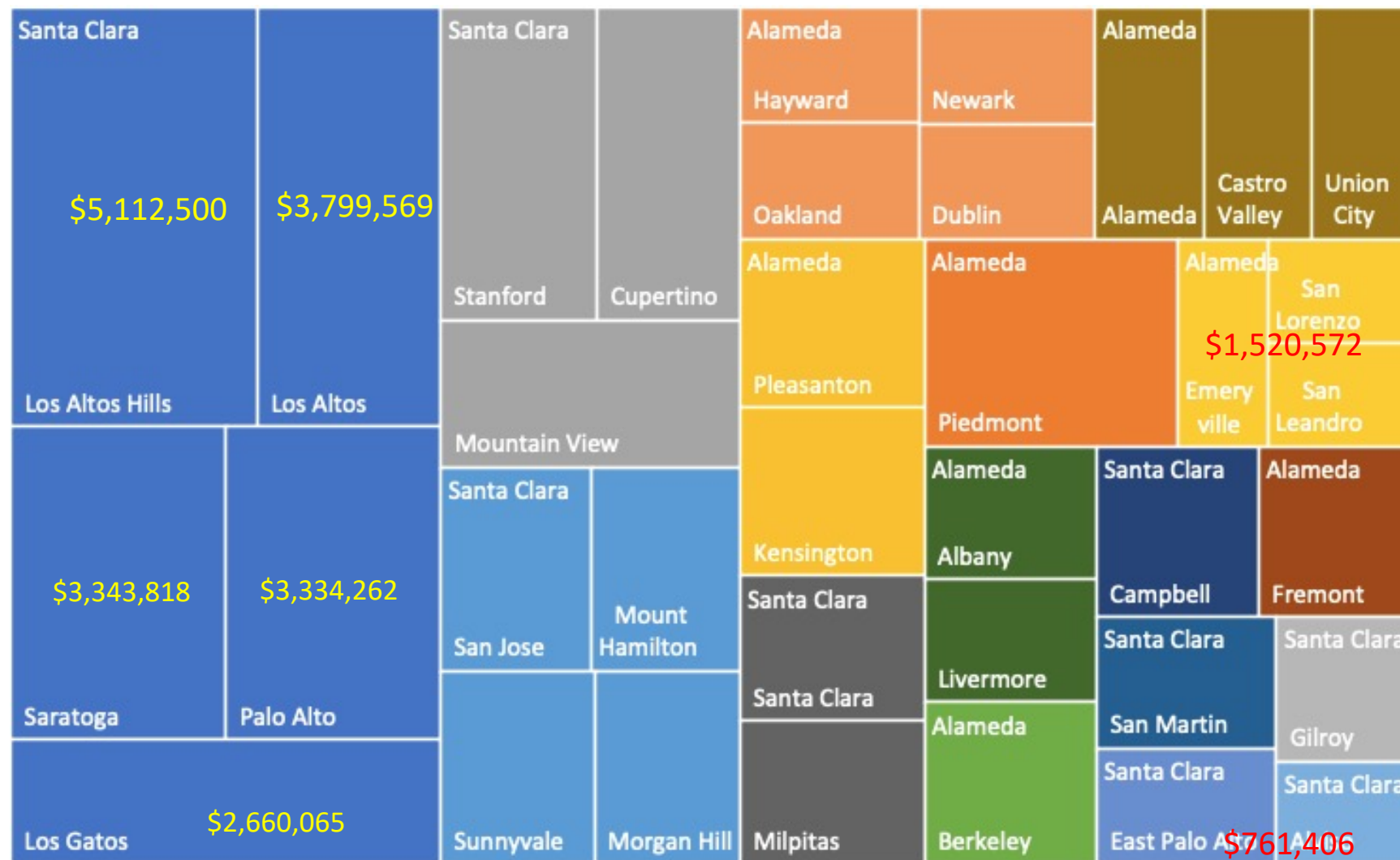


Home Size

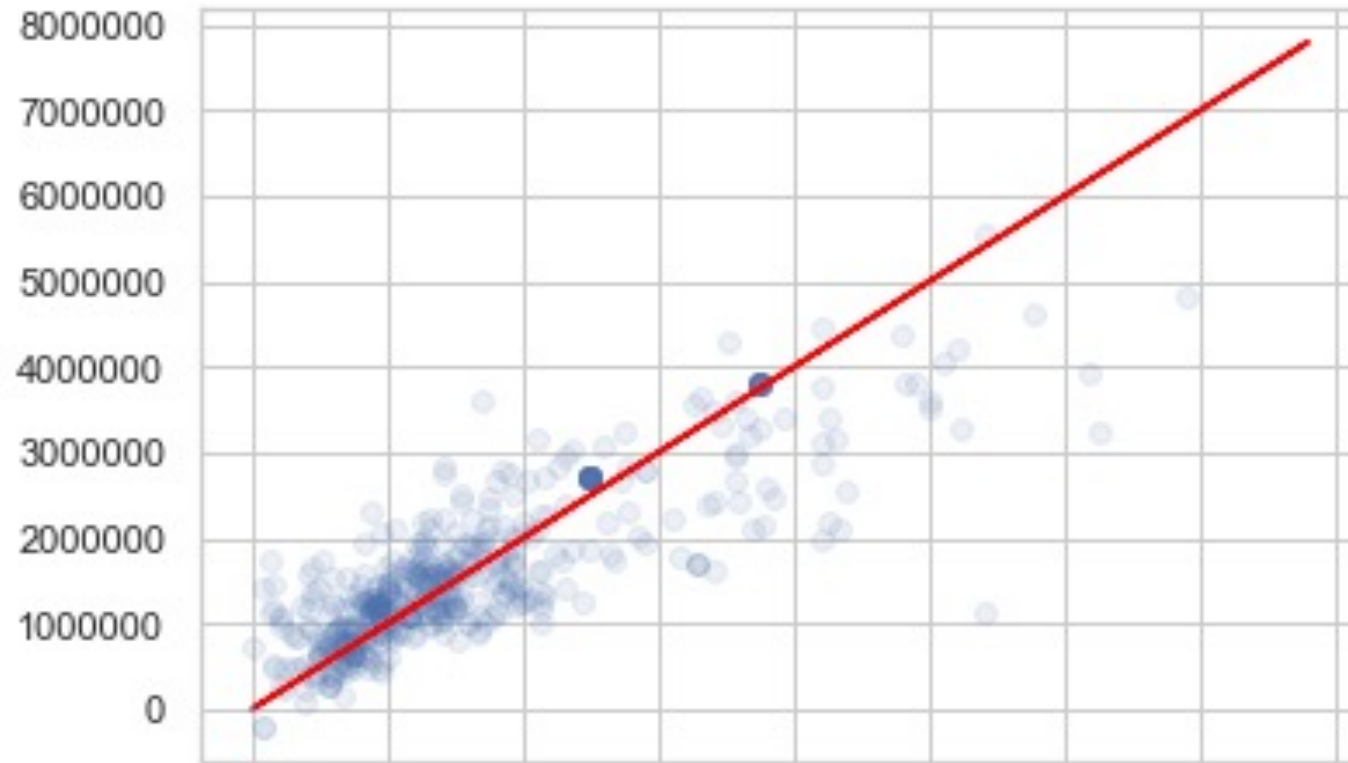
- <5000



Average Sale Price by City



Result

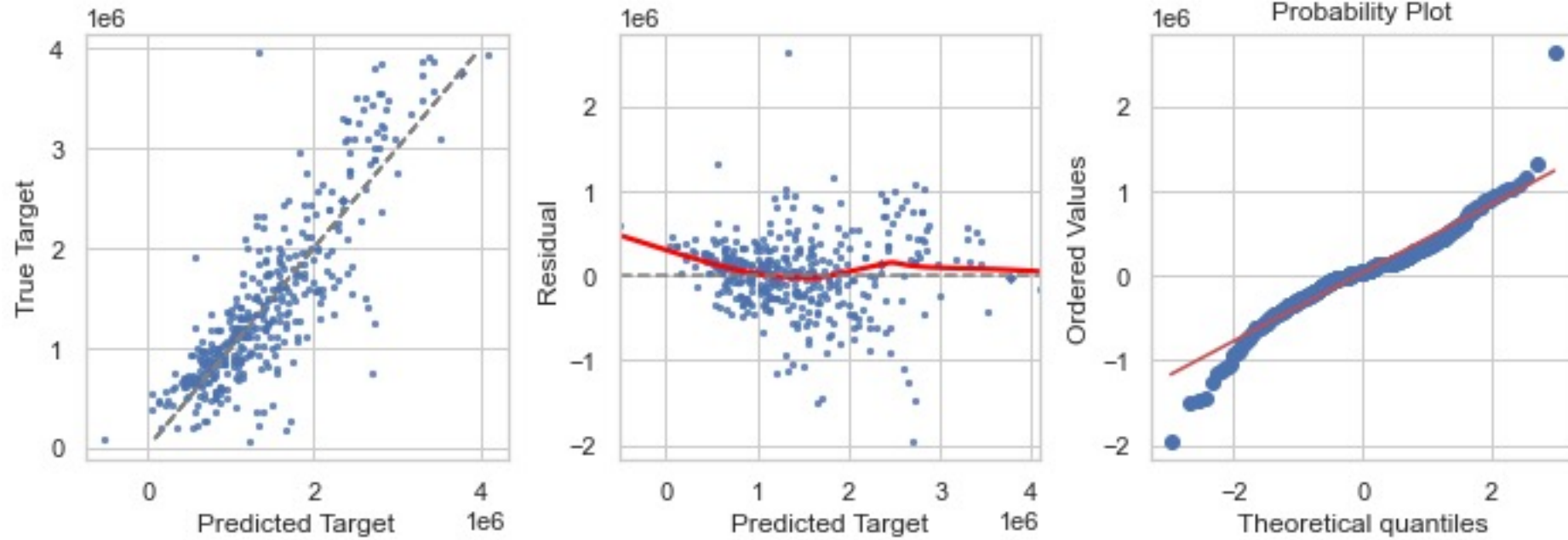


R^2 : 0.81

MAE: 1000+

Result cnt.

Diagnostic Plots



Future Work



Improve the model performance



Access Alternative Features



Separate the Analysis by County

Price Mean

- Alameda County: 1.15M
- Santa Clara County: 2.15M

