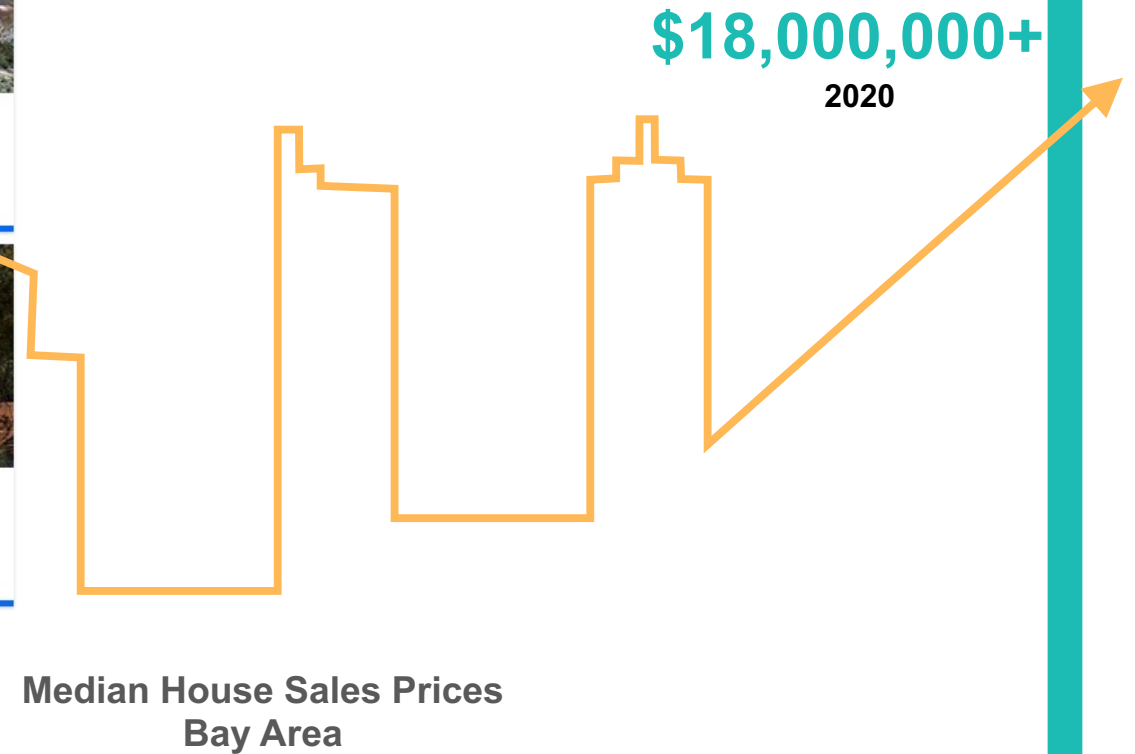
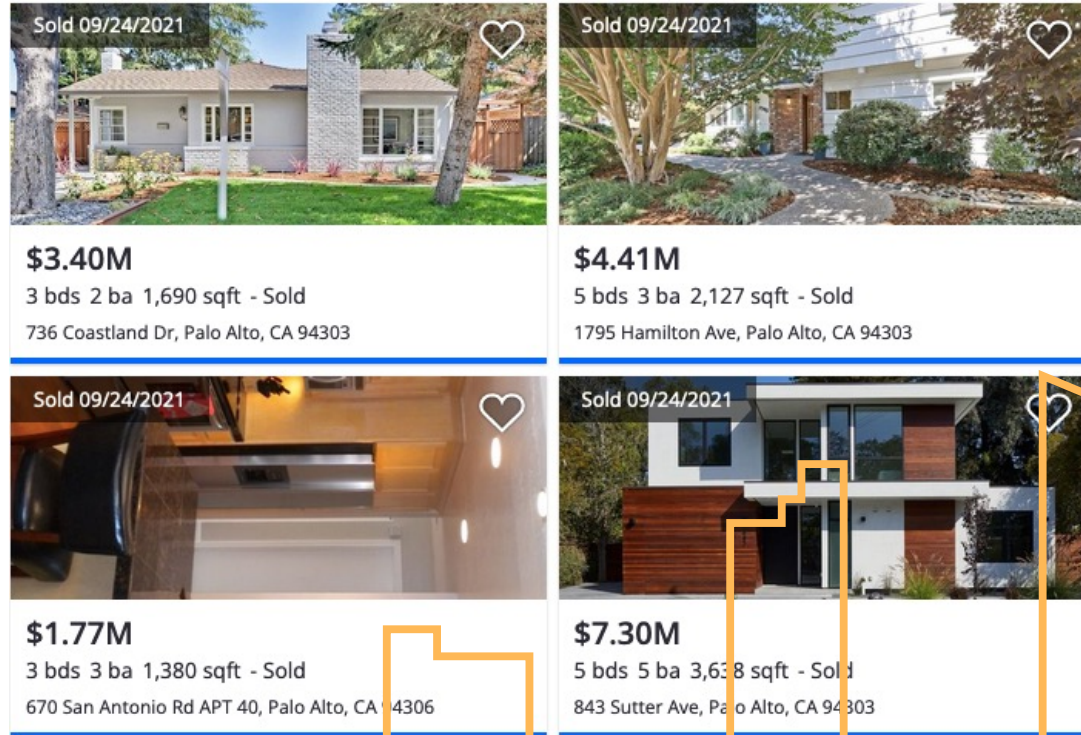




House Price Prediction

Motivation



Primary Data Source



Bay Area House Data



- Alameda County
- Santa Clara County



**Median Household
Income in California**

3900+ entries of Data 35 features

City	LotType
Zipcode	ParcelNum
SoldPrice	Zoning
Sold Date	SpecialCondition
HomeType	Materials
Bedrooms	Roof
Bathrooms	YearBuilt
FullBath	SewerInfo
HalfBath	WaterInfo
Flooring	UtilitiesType
Heating	Region
Cooling	RoomKitchenFeatures
Laundry	ListPriceLow
HomeSize	min_school_dist
ParkingLotNum	avg_school_dist
ParkingType	FoundationDetails
ExtType	ParkingFeatures
LotSize	

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



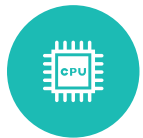
Sold Price

- > 5K
- < 6M



BEDROOM NUM

- =0



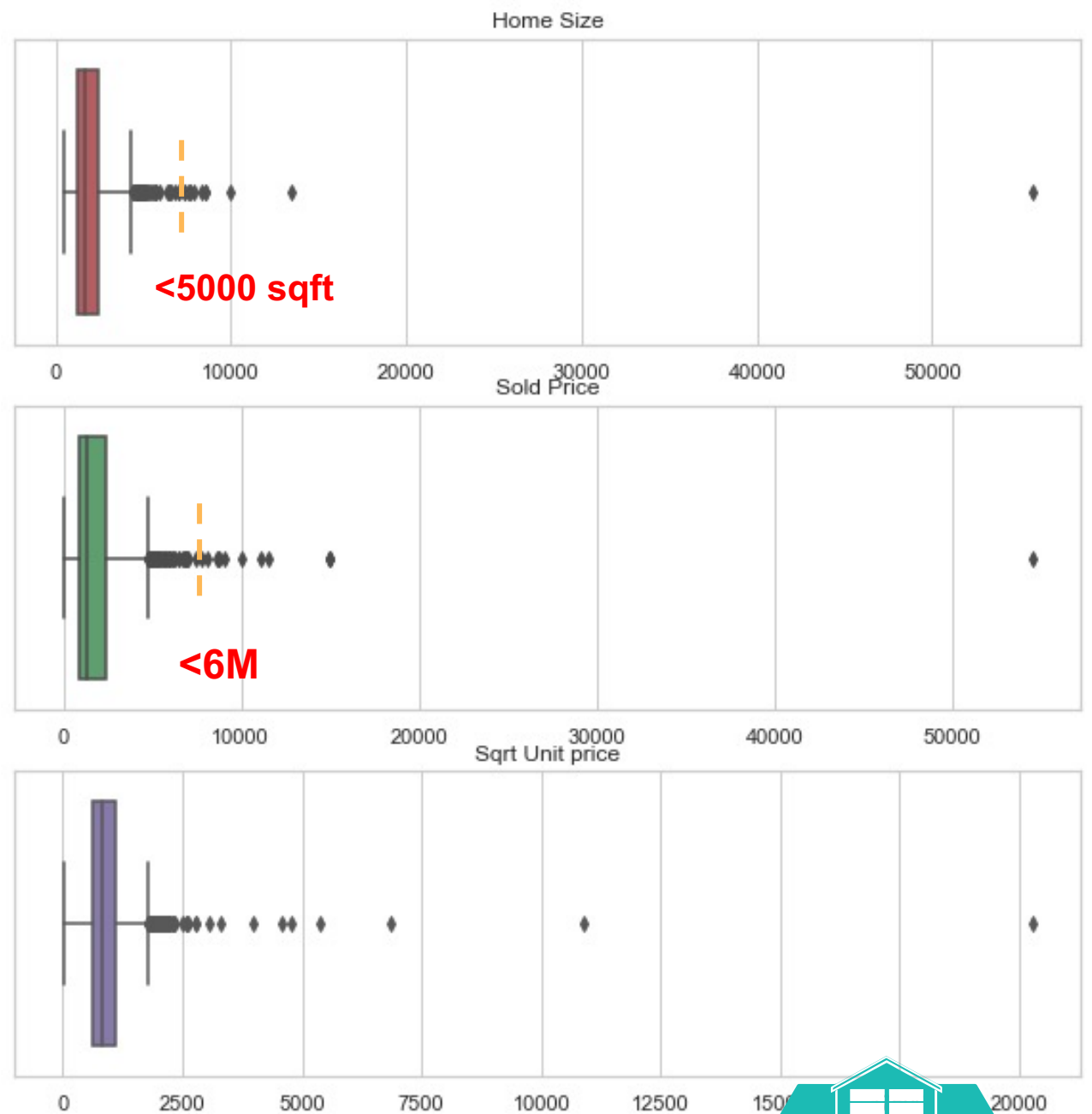
YEAR BUILT

- =0

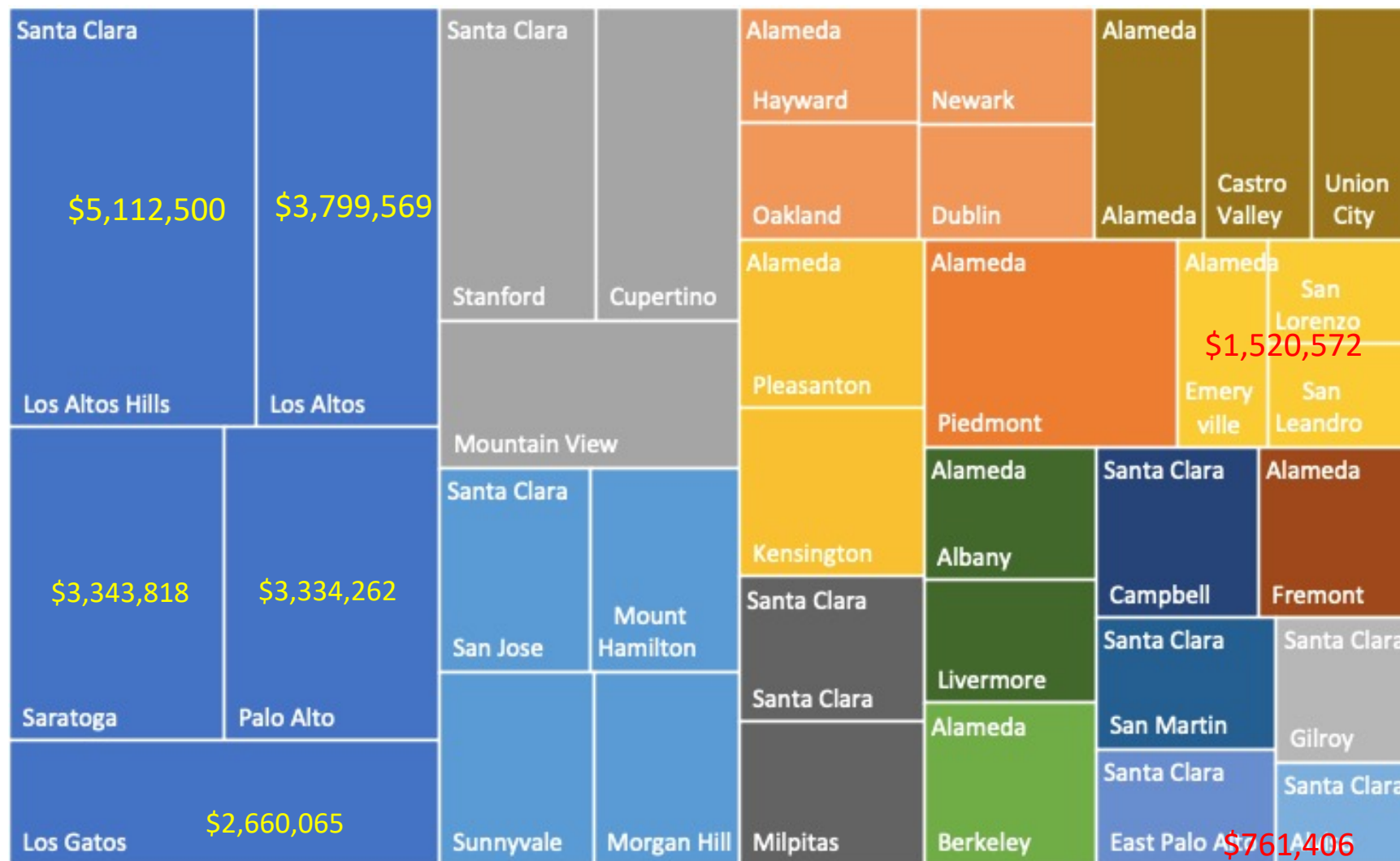


Home Size

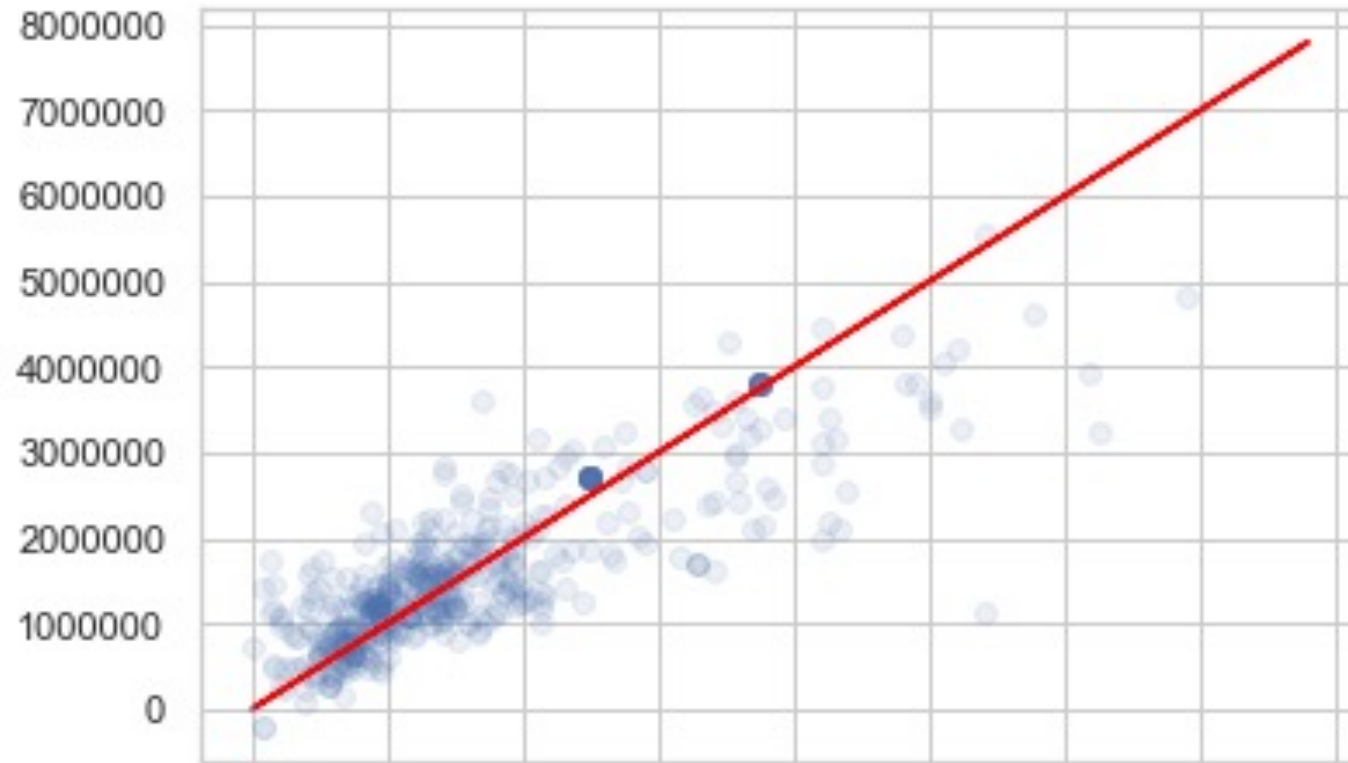
- <5000



Average Sale Price by City



Result

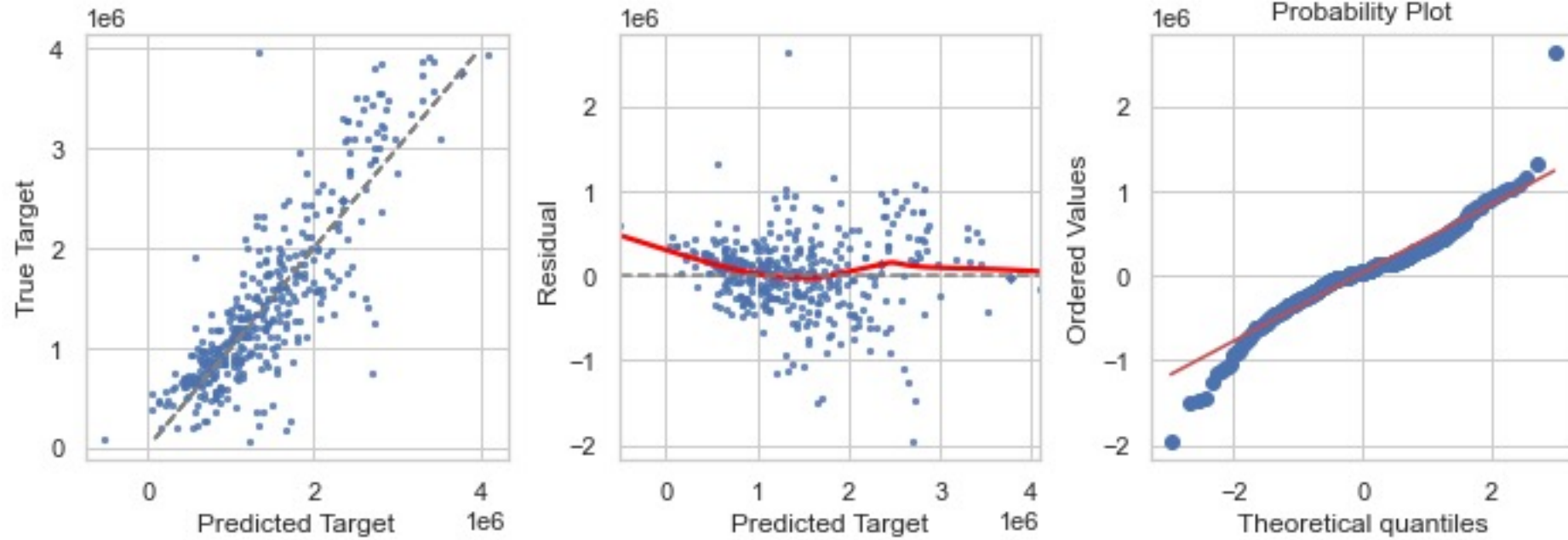


R^2 : 0.81

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

