

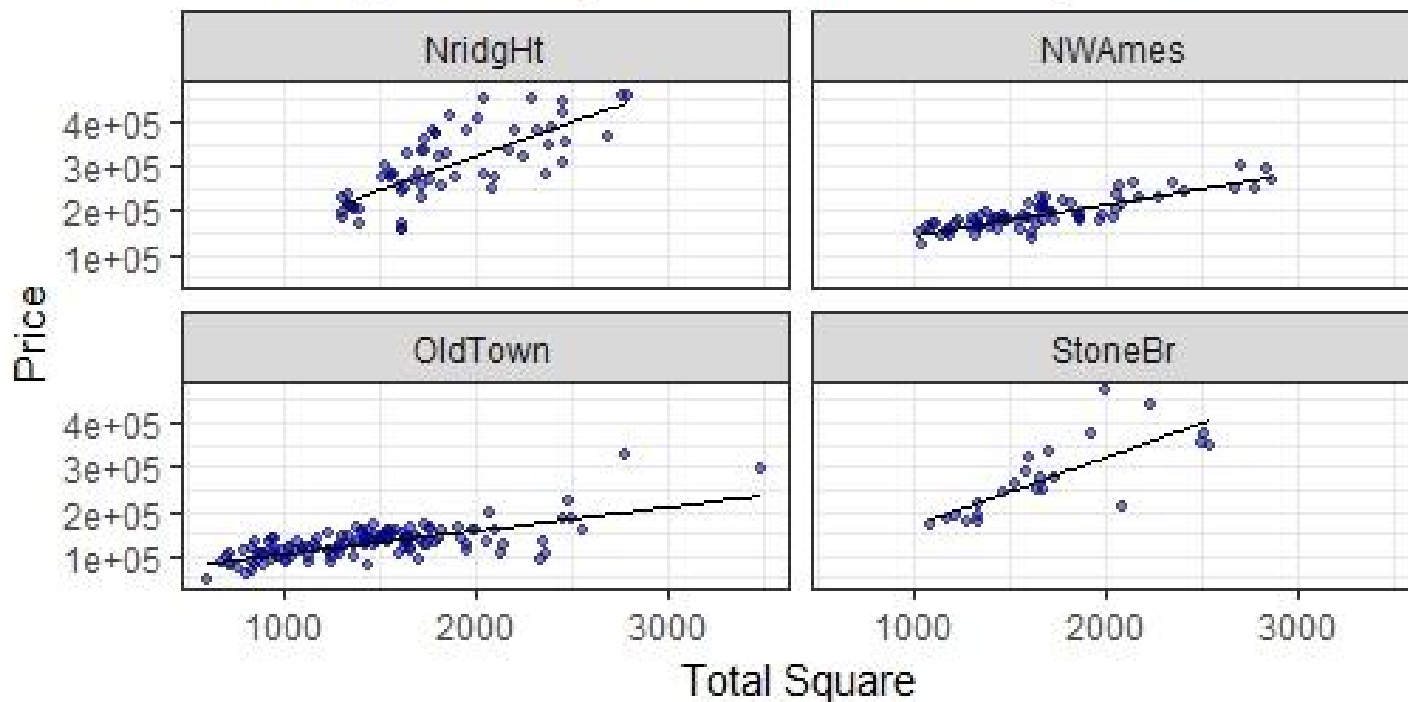
STA 521 Final Project

Prediction of House Prices

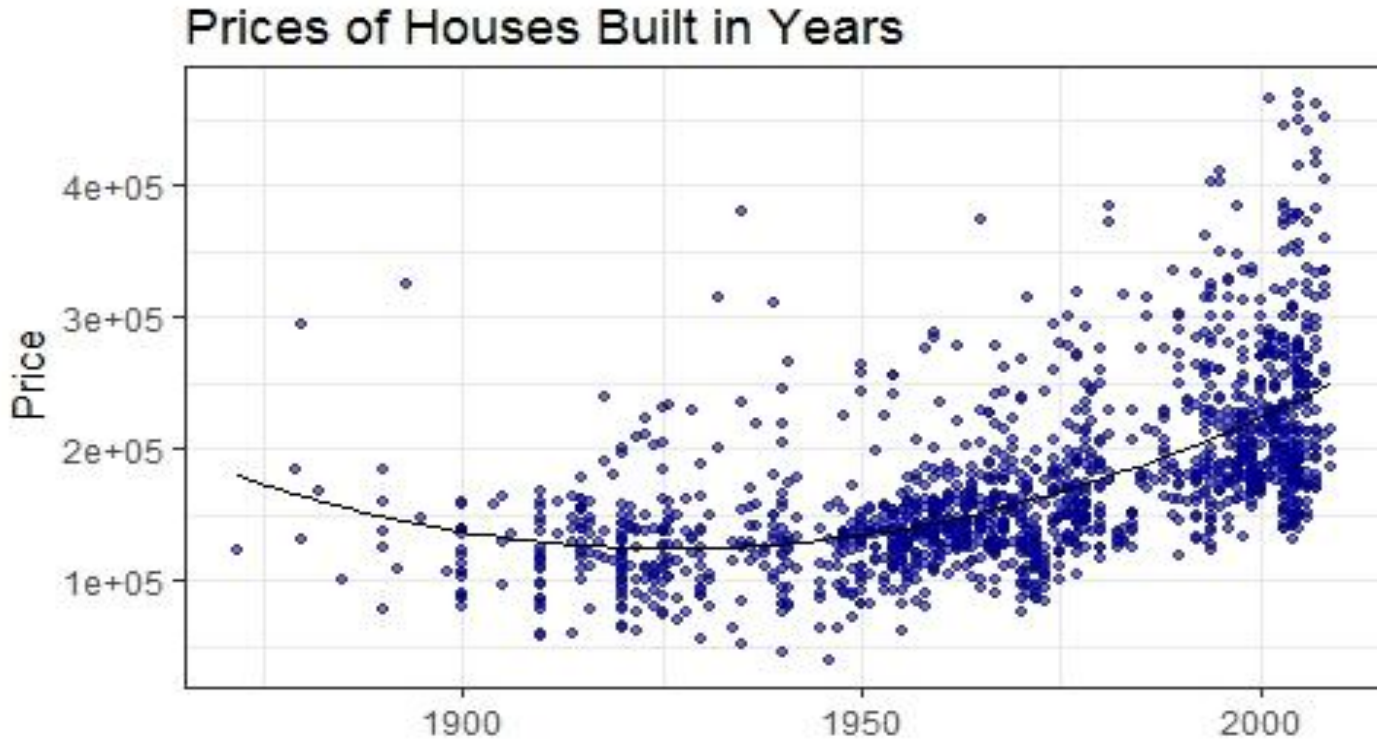
BayeStar

Exploratory Data Analysis

Prices by Total Square in Different Neighborhoods



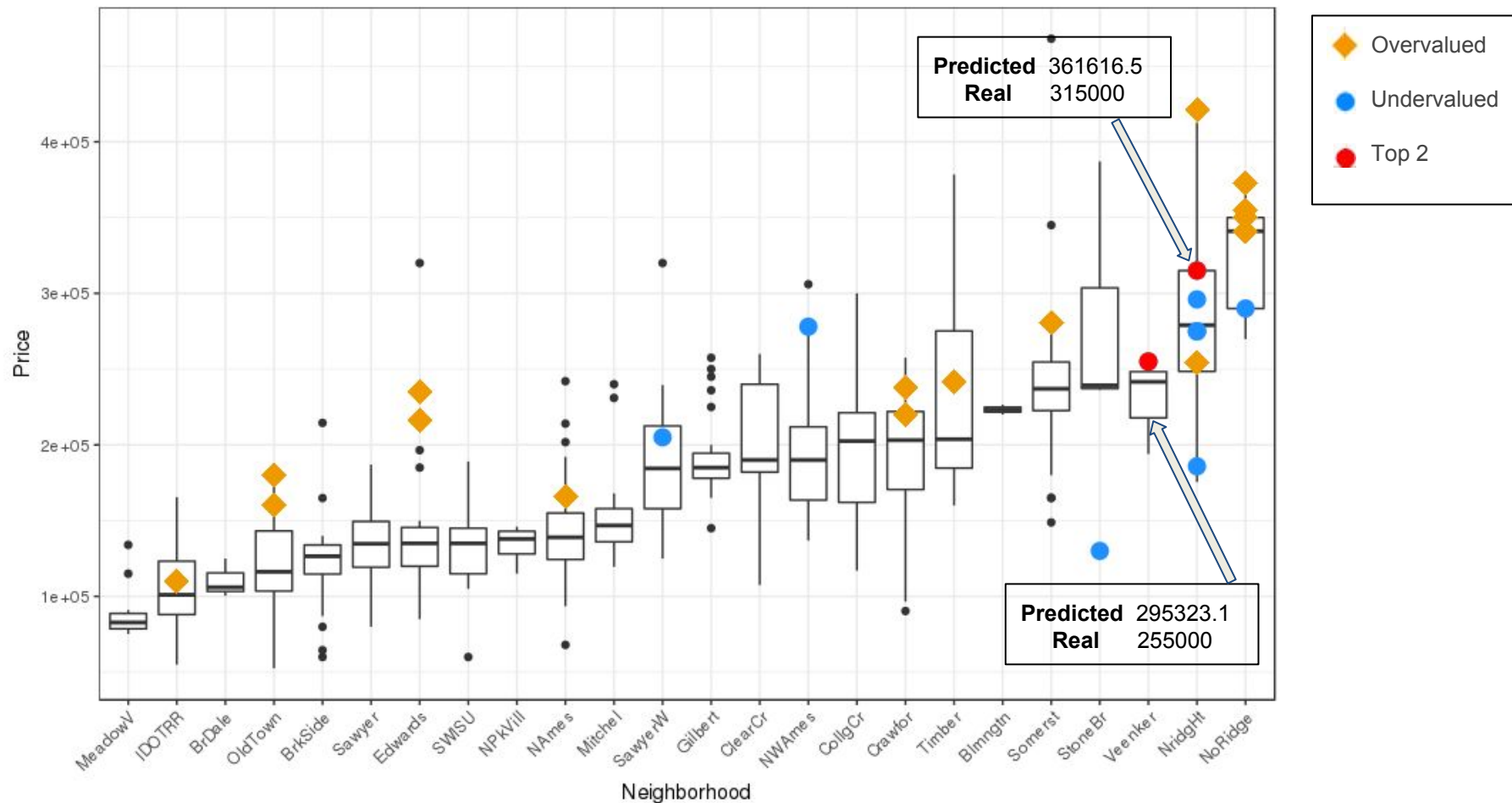
Exploratory Data Analysis



Linear Regression

- Remove variables with few unique values
 - Contain no information (E.g. Alley)
- Transformations
 - Log transformation (E.g. $\log(\text{Lot.Area})$)
 - Nonlinear relationship. and (E.g. $\text{poly}(\text{Year.Built}, 3)$)
- Interactions
 - Continuous-categorical pair
 - Describing same features
(E.g. Lot.Area & Lot.Shape)

Prices by Neighborhood



Thank You!