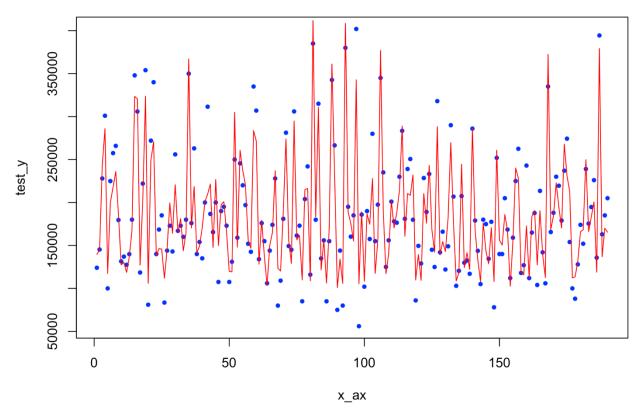
## Machine Learning project process:

- 1. Drop variables with too many missing values
- 2. Impute missing values for train/test data set with Mode/mean
- 3. Scale the values for numerical data
- 4. Simplify year data into 5 years a block category
- 5. Some categorical features transformed into ordinal
- 6. Drop unique values > 90% of features
- 7. Split the training dataset to train and test (80% vs 20%)
- 8. Use gradient boosting to train the model and get  $R^2 = 0.886$

> cat('The R-square of the test data is ', round(rsq,3), '\n')
The R-square of the test data is 0.886



- 9. Re-train the model with all the training data
- 10. Predict the test data given with the model