House Price Prediction

Problem statement:

A house's value is simply more than location and square footage. Like the features that make up a person, an educated party would want to know all aspects that give a house its value. For example, if I want to sell a house and I don't know the price that I may expect—it can't be too low or too high. To find a house price we usually try to find similar properties in the neighborhood and based on gathered data we will try to assess the house price.

Objective: Take advantage of all of the feature variables available below, and use them to analyze and predict house prices.

1. **cid:** a notation for a house

2. **day hours:** Date house was sold

3. **price**: Price is prediction target

4. **room_bed:** Number of Bedrooms/House

5. **room_bath:** Number of bathrooms/bedrooms

6. **living_measure:** square footage of the home

7. **lot_measure:** square footage of the lot

8. **ceil:** Total floors (levels) in the house

9. **coast:** House which has a view of a waterfront

10. **sight:** Has been viewed

11. **condition:** How good the condition is (Overall)

12. **quality:** grade is given to the housing unit, based on the grading system

13. **ceil_measure:** square footage of house apart from the basement

14. **basement_measure:** square footage of the basement

15. **yr_built:** Built Year

16. **yr_renovated:** The year when the house was renovated

17. **zip code:** zip

18. **lat:** Latitude coordinate

19. **long:** Longitude coordinate

20. **living_measure15:** Living room area in 2015(implies-- some renovations) This might or might not have affected the lot size area

21. **lot_measure15:** lot Size area in 2015(implies-- some renovations)

22. **furnished:** Based on the quality of the room

23. **total area:** Measure of both living and lot