

# House Square Feet Prediction

Targeted Audience :

Real Estate Developers.



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# Problem Statement :

- The Real Estate Company wanted to Build the the Model which can Predict the Square feet required to build the house and also need to estimate the Total Lot Size
- They have the 5000 Houses ,Tuscon location data set and the data set is processed .
- Need to build the Simple Model to Estimate the total Lot size required .





# About Data

4



## 1 Categorical

- 1.sold\_prices
- 2.cbdt\_acres
- 3.taxes
- 4.bedrooms
- 5.bathrooms
- 6.sqrt\_ft
- 7.garage
- 8.fireplaces
- 9.log\_Hoa
- 10.per\_sqrt

## 2 Continous

- 1.Zipcode
- 2.year\_built
- 3.range\_label

## 3 Bollean

- 1.Dishwasher
- 2.freezer
- 3.refrigerator
- 4.oven
- 5.garbage disposal
- 6.double sink
- 7.microwave
- 8.compactor
- 9.electric range
- 10.island
- 11.appliance color
- 12.gas range
- 13.prep sink
- 14.countertops granite
- 15.desk
- 16.lazy susan
- 17.pantry walk-in
- 18.pantry closet
- 19.pantry cabinet
- 20.garbage disposal
- 21.mexican tile
- 22.wood
- 23.natural stone
- 24.other
- 25.ceramic tile
- 26.carpet



# The Input Features

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01

## Total Price

Total Amount the Customer willing to Spend on their House

02

## Bedrooms

Number of bedrooms.

03

## Bathrooms

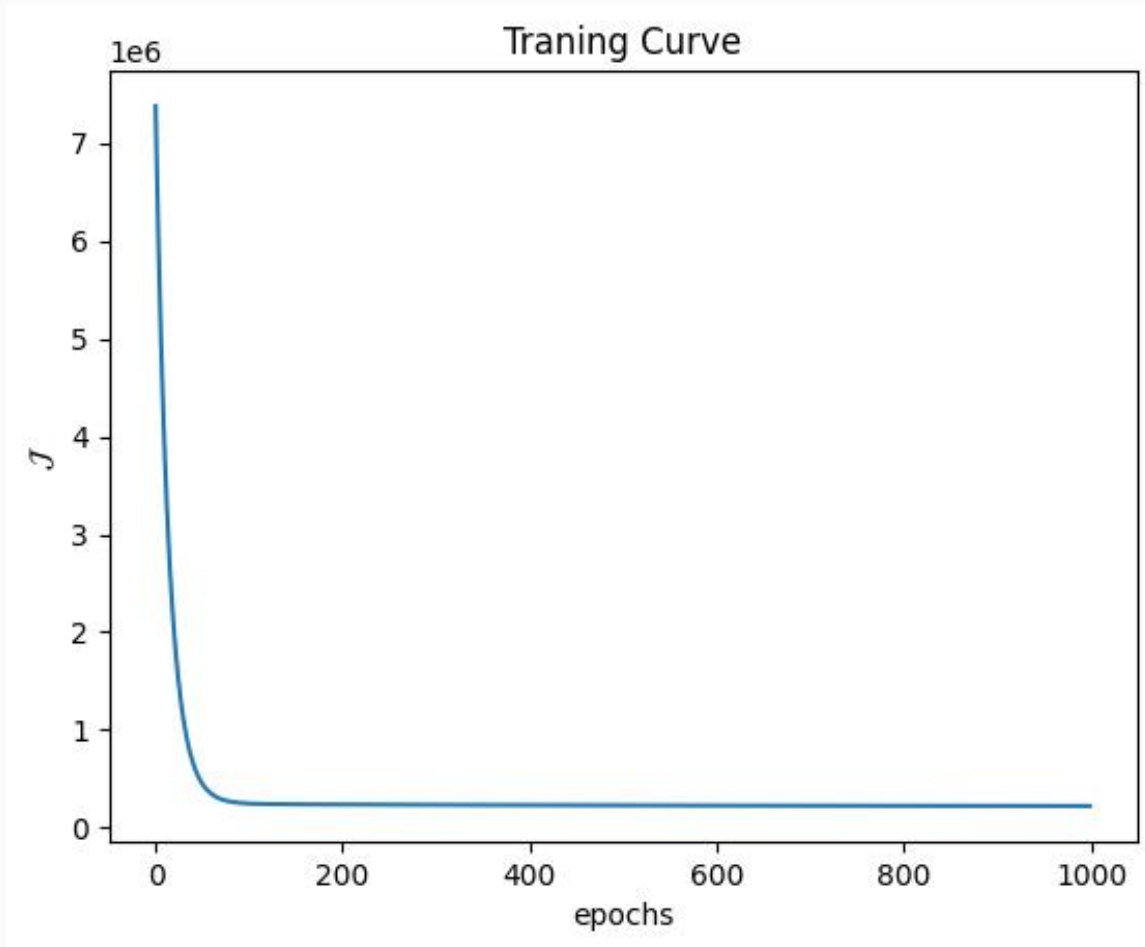
Number of Bathrooms to have in that House

04

## Fireplaces

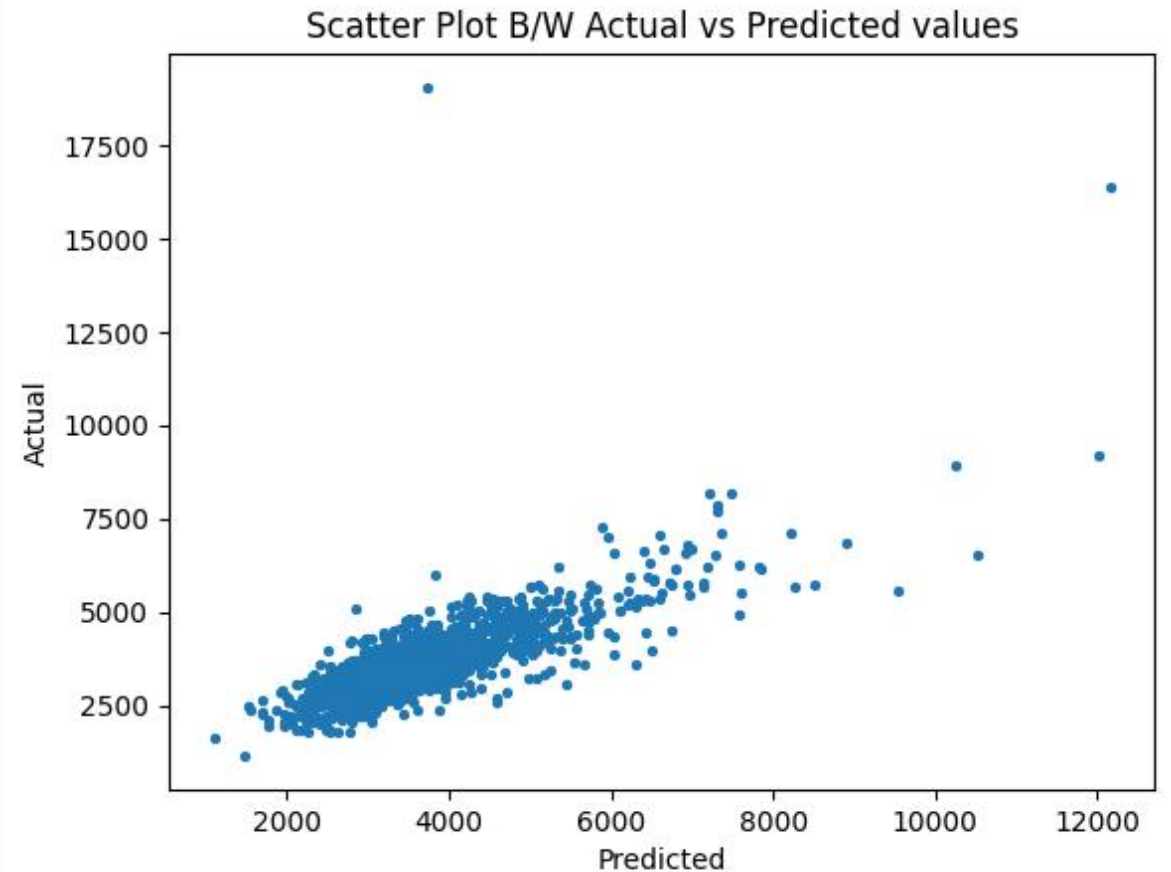
Number of Fireplaces to have in that House

# Multivariant Linear Regression



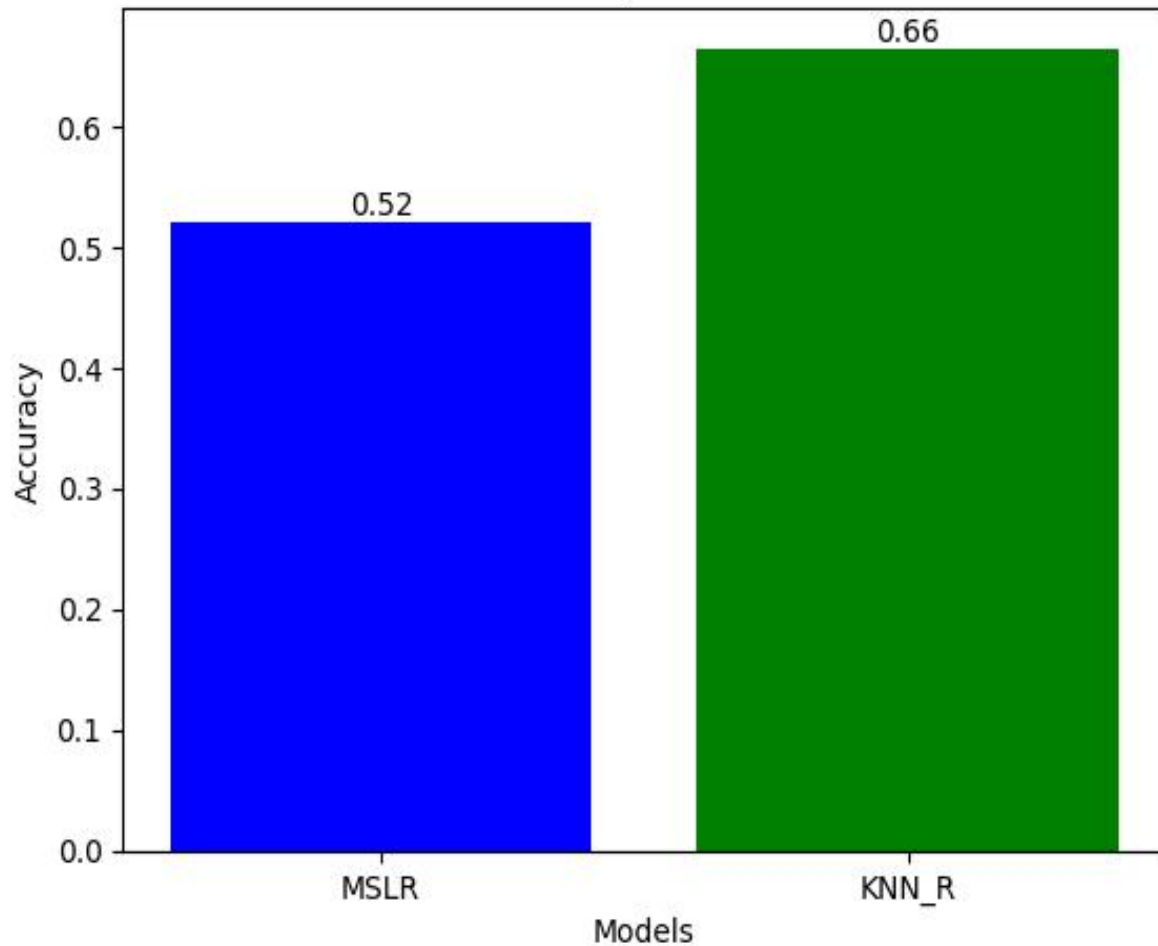
<b>sold_price_nor</b>	201.530293
<b>bedrooms</b>	342.436232
<b>bathrooms</b>	525.426115
<b>fireplaces</b>	171.617149

6

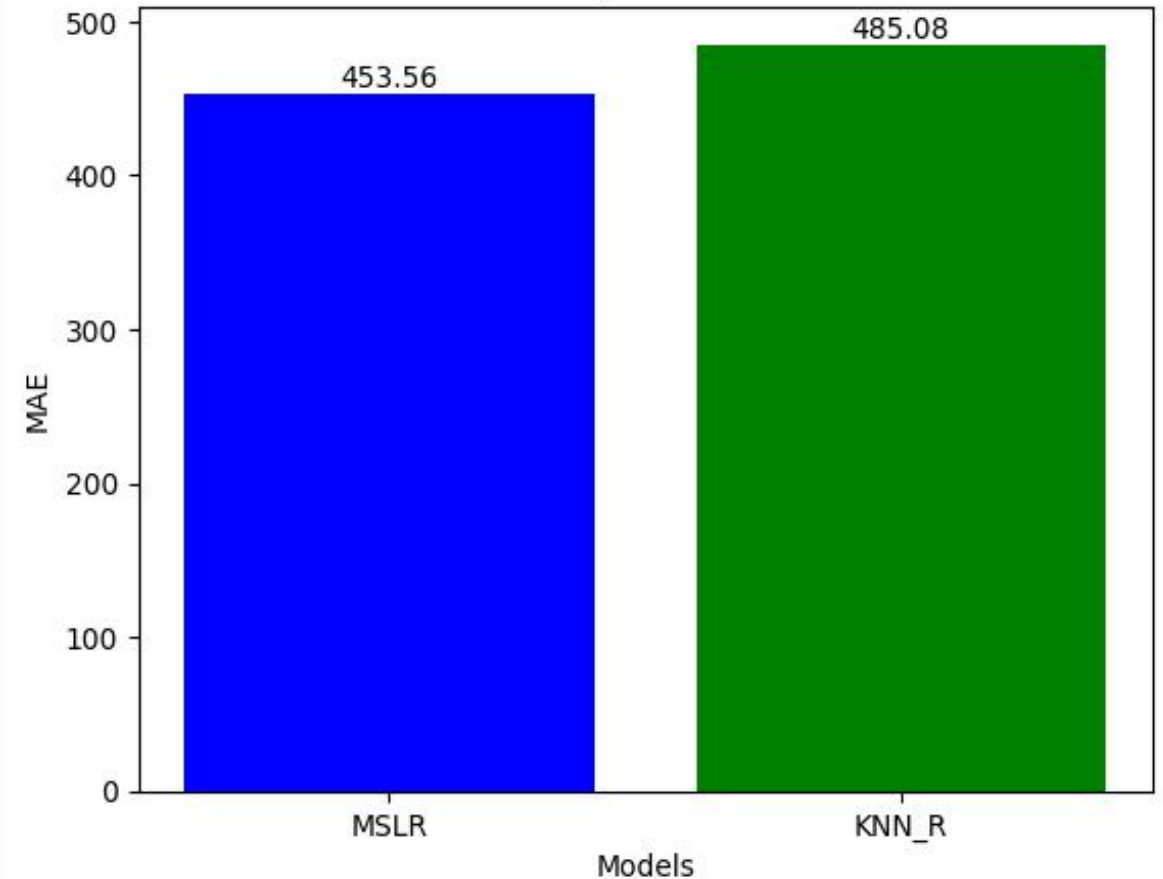


# The Test R2 & MAE of Models

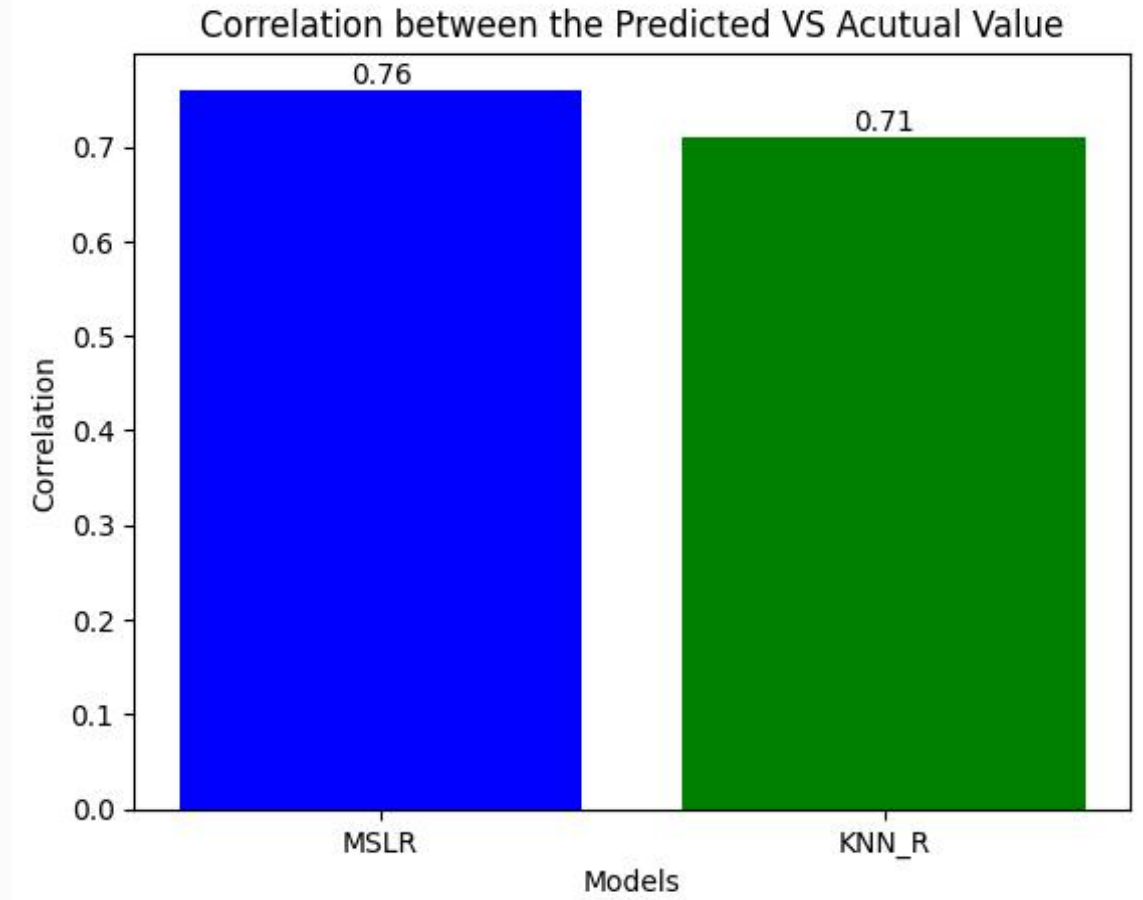
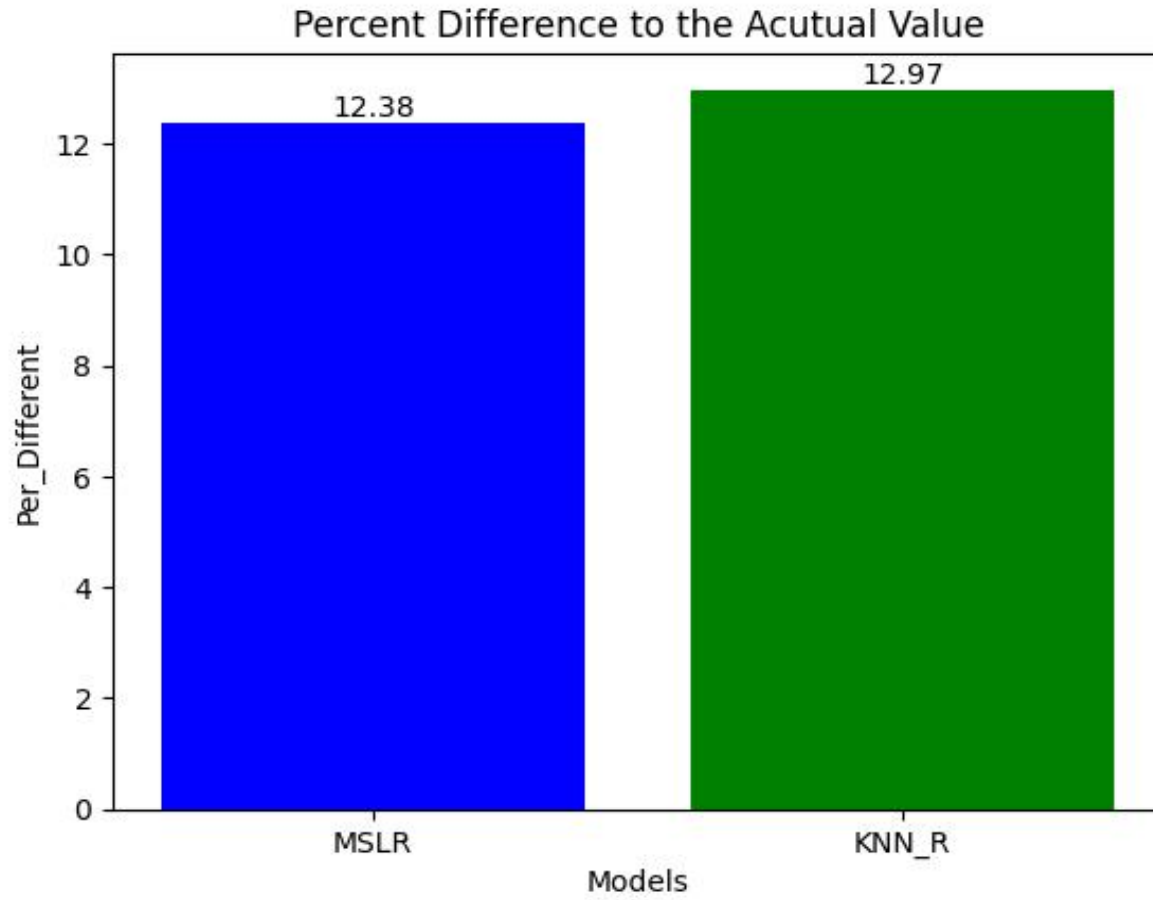
Accuracy of Models



Mean Average Error of Models



# The Percentage Different and Correlation.<sup>8</sup>







# Conclusion :

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A

We can use the MVLR ,to predict the Sqare feet required to build there dream house including the Lot size (Customize) .

B

This help to suggest, the right lots to the customers .And also speed-up the desicion .

C

With minimum features we are calculating, that's the best part.So we can add onto online .Stay connected to customers.

D

Just 5 Variables are computed so can install into my sytems easily and use it .

# THANKS

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