

POC(Proof Of Concept)

Summary :

This Project involved in predicting the Square Feet and Lot Size required as per the customers requirements .

The Features :

- 1.Total Price :Total Amount the customer willing to spend on their dream house including Building the House and the Lot Size
- 2.Bedrooms : The total bedrooms ,need to be in the House
- 3.Bathrooms:The total Bathrooms ,need to be in House
- 4.Fireplaces:total number of fireplaces to have in the House .

We have build the Multivariate linear Regression Model which can predict the house Square Feet and also we ask the customers how much percentage does the house should be occupied in the Lot Size so we can calculate the total lot size :

From model we get the Square Feet area of the house= y

Percentage of house to occupy= X

As the 1 acres= 43560 Square Feet

Total Lot size(Including square ft)=\$(y/x)*100

Total Lot size(In acres)=Total Lot size(Including square ft)/43560

Specific actions and Technologies:

- Google.Colab: Colab is Notebook which is used to execute code on Google Cloud servers .
- Google Drive : Used to Store the raw data set and can easily connect to the Google_Colab and also cleaned data set .
- Github :Used to upload the Google Colab notebook and process data for future data
- Python and Pandas : Utilized python and Pandas Library to construct a DataFrame for data processing .
- Numpy : Utilized for mathematical calculations
- Seaborn and Matplotlib: Used for graphical representation to understand data better.
- Plotly:used to Draw the geographical maps using the Longitudes and latitudes.