

# HOUSE PRICE PREDICTION PROGRAM

## Project Name:

House price prediction

## Project Type:

Bachelors of Computer Engineering. Engineering project I course project.

## Project Team:

- AMMAR MOHAMMED (COMPUTER ENGINEERING)

## Project Aim:

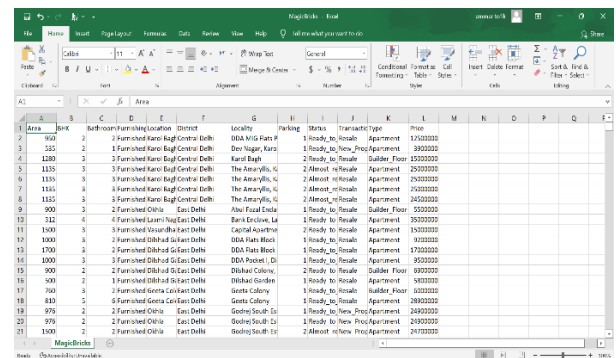
Using machine learning in MATLAB and MATLAB GUI to predict prices of a house based on the given data like area, BHK, number of parking and etc.

## LAYOUT OF THE APPLICATION (USER INTERFACE):



The MATLAB App GUI is divided into two main sections. The top section, titled 'HOME', displays a greeting: 'HELLO, HUMAN, THIS IS A PRODUCT WHICH WILL PREDICT THE PRICES OF A HOUSE BASED ON THE INFORMATION YOU GIVE.' Below this is a 3D aerial view of a residential neighborhood. The bottom section, titled 'DETAILS ABOUT THE HOUSE', contains a form for inputting house details. The form includes dropdown menus for 'FURNISHING' (set to 'Furnished'), 'LOCATION' (set to 'Karol Bagh'), 'DISTRICT' (set to 'Central De...'), 'TRANSACTION' (set to 'Resale'), and 'STATUS' (set to 'Ready\_to...'). It also includes text boxes for 'LOCALITY' (set to 'Abul Fazal...'), 'TYPE' (set to 'Builder\_F...'), 'PARKING' (set to '3.423e+04'), 'BHK' (set to '2'), and 'BEDROOM' (set to '23'). A 'PREDICT' button is highlighted with a yellow box, and the predicted price is displayed as '361626848'. Below the button, it says 'predicted price is : this much Result'.

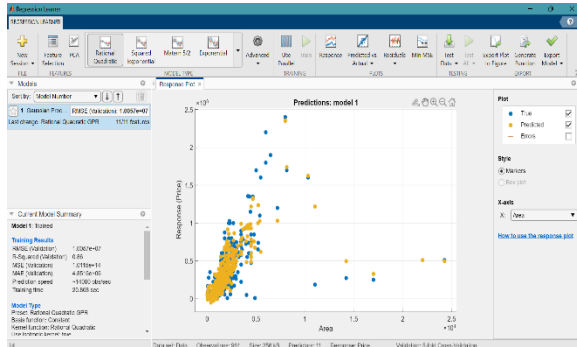
## DATA SETS FROM EXCEL:



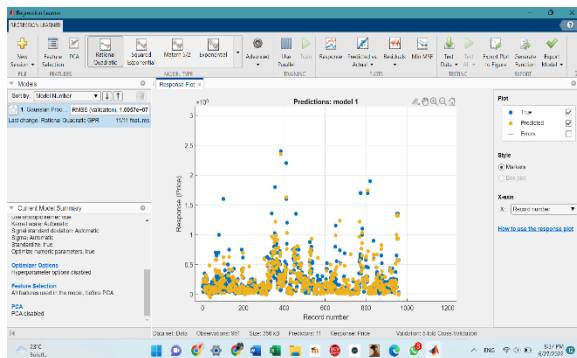
The Excel spreadsheet displays a dataset of house information. The columns are labeled: Area, Loc, B, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z. The rows contain data for various houses, including details like 'Area', 'Loc', 'B', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z'. The data is organized into a table with multiple columns and rows, showing a variety of house types and locations.

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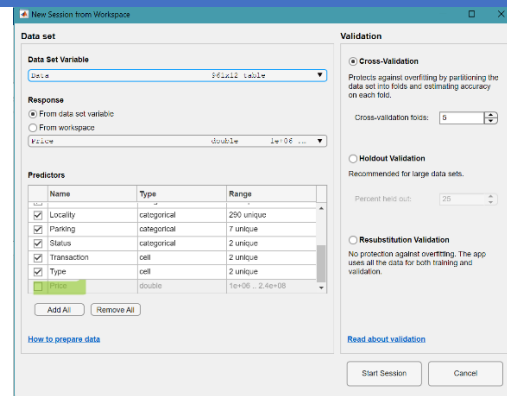
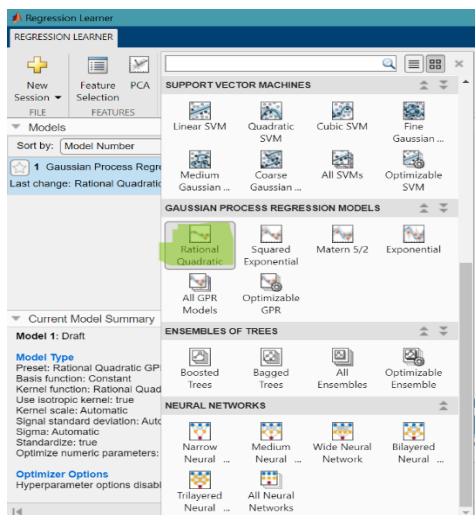
## COMPARING SINGLE DATAS WITH THE PREDICTED PRICE:



## OBSERVING THE RESPONSE WITH EVERY DATAS:



## USING MACHINE LEARNING



## FUNCTION WHICH WILL BE GENERATED AFTER THE TRAINING:

