

# House Price Prediction using Linear Regression

## Objective:

To build a Linear Regression model to predict house prices based on square footage, number of bedrooms, and bathrooms.

## Steps:

1. Load the dataset (train.csv)
2. Select relevant features: GrLivArea, BedroomAbvGr, FullBath
3. Define target variable: SalePrice
4. Split the data into training and test sets
5. Train a Linear Regression model
6. Predict house prices on test data
7. Evaluate performance using Mean Squared Error and  $R^2$  Score
8. Visualize Actual vs Predicted Prices

## Model Output:

(Metrics will appear after running the code in Colab)

**Note: Run the code in Colab to see graphs and metrics.**