**House Price Prediction:**

**Problem Statement:**  
The objective of this project is to develop a machine learning model that accurately predicts house prices based on various features such as location, property size, construction status, and more. This model will help potential buyers and real estate agents estimate property values, aiding in better decision-making and price forecasting.

**Dataset Overview:**

The dataset consists of records representing different residential properties. Each row describes the property’s attributes and its corresponding price (in lakhs). The task is to use the given features to predict the **"TARGET(PRICE\_IN\_LACS)"** variable.

**Variable Descriptions:**

| **Column Name** | **Description** | **Data Type** |
| --- | --- | --- |
| POSTED\_BY | Person posting the listing (Owner, Dealer, etc.). | Categorical |
| UNDER\_CONSTRUCTION | Indicates if the property is under construction (1: Yes, 0: No). | Binary (0/1) |
| RERA | Indicates RERA approval status (1: Approved, 0: Not Approved). | Binary (0/1) |
| BHK\_NO. | Number of Bedrooms, Hall, and Kitchen (BHK). | Integer (Discrete) |
| BHK\_OR\_RK | Property type (BHK or RK – Room Kitchen). | Categorical |
| SQUARE\_FT | Total area of the property in square feet. | Float (Continuous) |
| READY\_TO\_MOVE | Indicates if the property is ready for occupancy (1: Yes, 0: No). | Binary (0/1) |
| RESALE | Indicates if the property is for resale (1: Yes, 0: No). | Binary (0/1) |
| ADDRESS | Location of the property (City, Region). | Text (Alphanumeric) |
| LONGITUDE | Longitude coordinate of the property. | Float (Geographic) |
| LATITUDE | Latitude coordinate of the property. | Float (Geographic) |
| TARGET(PRICE\_IN\_LACS) | House price in lakhs (Target variable for prediction). | Float (Continuous) |