Shri Vile Parle Kelavani Mandal's
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
(Autonomous College Affiliated to the University of Mumbai)
NAAC Accredited with "A" Grade (CGPA : 3.18)

Department of Computer Science and Engineering (Data Science)

Subject: Machine Learning – I (DJ19DSC402)

MINI PROJECT

NAME: DIVYESH KHUNT **SAPID: 60009210116**

TITLE: *PRICE PREDICTION OF HOUSES*

Problem statement:

Today with the increasing population there is also and increase of demand on land and area .For this many brokers and real estate agents are available which help people to get the desired houses. With the help of this model, we can replace the agents with and app or web consisting this model. The goal of this project is to build a model that can predict the price of apartment in different locations based on various attributes such as location, square feet, resale value, etc. This model can be used by real estate agents or buyers to make informed decisions about the price of the apartment.

Dataset Attributes:

POSTED_BY: Whether the listing was posted by an owner or a dealer.
UNDER_CONSTRUCTION: Whether the apartment is under construction or ready-to-move.
RERA: Whether the apartment is registered under RERA or not.
BHK_NO: Number of bedrooms in the apartment.
BHK_OR_RK: Whether the apartment is a BHK or a studio (RK).
SQUARE_FT: Total square footage of the apartment.
READY_TO_MOVE: Whether the apartment is ready to move.
RESALE: Whether the apartment is a resale or a new property.
ADDRESS: The location of the apartment.
LONGITUDE: The longitude of the apartment's location.
LATITUDE: The latitude of the apartment's location.
TARGET(PRICE_IN_LACS): The target variable or the price of the apartment in lacs.

Justification:

This dataset is suitable for solving the problem statement as it contains all the necessary attributes required for predicting the price of a 2 BHK apartment. The dataset has information about the location, square footage, resale value, and other important attributes that can influence the price of the apartment. Additionally, the dataset contains information about apartments located in different cities, making it possible to build a model that can predict the price of a 2 BHK apartment in different locations.

Source: House Price Dataset | Kaggle

60009210116

Divyesh khunt

HOME PRICE PRDICTION

```
[1] import pandas as pd
```

```
[4] df=pd.read_csv("/content/Train.csv")
    df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 29451 entries, 0 to 29450
Data columns (total 12 columns):
 #   Column                 Non-Null Count  Dtype
---  ------                 --------------  -----
 0   POSTED_BY              29451 non-null  object
 1   UNDER_CONSTRUCTION     29451 non-null  int64
 2   RERA                   29451 non-null  int64
 3   BHK_NO.                29451 non-null  int64
 4   BHK_OR_RK              29451 non-null  object
 5   SQUARE_FT              29451 non-null  float64
 6   READY_TO_MOVE          29451 non-null  int64
 7   RESALE                 29451 non-null  int64
 8   ADDRESS                29451 non-null  object
 9   LONGITUDE              29451 non-null  float64
 10  LATITUDE               29451 non-null  float64
 11  TARGET(PRICE_IN_LACS)  29451 non-null  float64
dtypes: float64(4), int64(5), object(3)
memory usage: 2.7+ MB
```

```
df.head()
```

	POSTED_BY	UNDER_CONSTRUCTION	RERA	BHK_NO.	BHK_OR_RK	SQUARE_FT	READY_TO_MOVE	RESALE	ADDRESS	LONGITUDE	LATITUDE	TARGET(PRICE_IN_LACS)
0	Owner	0	0	2	BHK	1300.236407	1	1	Ksfc Layout,Bangalore	12.969910	77.597960	55.0
1	Dealer	0	0	2	BHK	1275.000000	1	1	Vishweshwara Nagar,Mysore	12.274538	76.644605	51.0
2	Owner	0	0	2	BHK	933.159722	1	1	Jigani,Bangalore	12.778033	77.632191	43.0
3	Owner	0	1	2	BHK	929.921143	1	1	Sector-1 Vaishali,Ghaziabad	28.642300	77.344500	62.5
4	Dealer	1	0	2	BHK	999.009247	0	1	New Town,Kolkata	22.592200	88.484911	60.5