import numpy as np

import pandas as pd

import matplotlib.pyplot as plt

df=pd.read\_csv('/content/drive/MyDrive/DataSet/Real estate.csv') df.head()

**No**

**X1**

**transaction date**

**X2**

**house age**

**X3 distance to the nearest MRT station**

**X4 number of convenience stores**

**X5**

**latitude**

**X6**

**longitude**

**Y house price of unit area**

**0** 1 2012.917 32.0 84.87882 10 24.98298 121.54024 37.9 **1** 2 2012.917 19.5 306.59470 9 24.98034 121.53951 42.2 **2** 3 2013.583 13.3 561.98450 5 24.98746 121.54391 47.3 **3** 4 2013.500 13.3 561.98450 5 24.98746 121.54391 54.8

df.shape

(414, 8)

X=df.iloc[:,1:-1]

Y=df['Y house price of unit area']

from sklearn.model\_selection import train\_test\_split

X\_train,X\_test,Y\_train,Y\_test=train\_test\_split(X,Y,test\_size=0.3,random\_state=3) X\_train

**X1**

**transaction date**

**X2 house age**

**X3 distance to the nearest MRT station**

**X4 number of**

**convenience stores**

**X5**

**latitude**

**X6**

**longitude**

**75** 2013.500 12.3 1360.1390 1 24.95204 121.54842 **14** 2013.500 13.2 1164.8380 4 24.99156 121.53406 **397** 2013.417 13.1 1164.8380 4 24.99156 121.53406 **47** 2013.583 35.9 640.7391 3 24.97563 121.53715 **46** 2013.417 21.7 463.9623 9 24.97030 121.54458 **...** ... ... ... ... ... ... **256** 2012.667 14.6 339.2289 1 24.97519 121.53151 **131** 2013.500 4.0 2147.3760 3 24.96299 121.51284 **249** 2012.833 18.0 6306.1530 1 24.95743 121.47516 **152** 2013.333 12.0 1360.1390 1 24.95204 121.54842

**362** 2013.417 17.1 967.4000 4 24.98872 121.53408 from sklearn.linear\_model import LinearRegression

289 6 l

model=LinearRegression()

model.fit(X\_train,Y\_train)

LinearRegression()

y\_pred=model.predict(X\_test)

from sklearn.metrics import r2\_score

score=r2\_score(Y\_test,y\_pred)

score

0.61013019865237

z=pd.DataFrame({'actual':Y\_test,'predicted':y\_pred})

Pz.head()

**actual predicted**

**161** 39.6 41.400219

**130** 37.5 44.632017

**227** 40.2 43.212812

**103** 45.7 44.031988

**240** 28.8 33.343182

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