# Importing necessary libraries

Import numpy as np

Import pandas as pd

Import matplotlib.pyplot as plt

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

From sklearn.linear\_model import LinearRegression

From sklearn.metrics import mean\_squared\_error

# Load the dataset

Data = pd.read\_csv(‘house\_data.csv’) # Replace ‘house\_data.csv’ with your dataset filename

# Explore the dataset (optional)

Print(data.head()) # To view the first few rows of the dataset

Print(data.info()) # To get information about the dataset

# Data preprocessing

X = data[[‘feature1’, ‘feature2’, …]] # Replace ‘feature1’, ‘feature2’, … with your feature columns

Y = data[‘price’] # Assuming ‘price’ is the target variable

# Splitting the data into training and testing sets

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, y, test\_size=0.2, random\_state=42)

# Model training

Model = LinearRegression()

Model.fit(X\_train, y\_train)

# Model evaluation

Train\_predictions = model.predict(X\_train)

Test\_predictions = model.predict(X\_test)

Train\_rmse = np.sqrt(mean\_squared\_error(y\_train, train\_predictions))

Test\_rmse = np.sqrt(mean\_squared\_error(y\_test, test\_predictions))

Print(“Train RMSE:”, train\_rmse)

Print(“Test RMSE:”, test\_rmse)

# Plotting the results (optional)

Plt.scatter(y\_test, test\_predictions)

Plt.xlabel(‘True Values’)

Plt.ylabel(‘Predictions’)

Plt.title(‘True vs. Predicted House Prices’)

Plt.show()