import pandas as pd

import numpy as np

import matplotlib.pyplot as plt

import seaborn as sns

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

from sklearn.linear\_model import LinearRegression

from sklearn.metrics import mean\_squared\_error, r2\_score

data = pd.read\_csv('housing\_data.csv')

print(data.head())

print(data.info())

sns.pairplot(data)

plt.show()

data = data.dropna() # Or use data.fillna() depending on the strategyX = data[['SquareFootage', 'Bedrooms', 'Location']] # Add other features as needed

y = data['Price']

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

model = LinearRegression()

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

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

mse = mean\_squared\_error(y\_test, y\_pred)

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

print(f'Mean Squared Error: {mse}')

print(f'R-squared: {r2}')

plt.scatter(y\_test, y\_pred)

plt.xlabel('True Prices')

plt.ylabel('Predicted Prices')

plt.title('True Prices vs Predicted Prices')

plt.show()