import pandas as pd

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

from sklearn.linear\_model import LinearRegression

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

# Create a dummy dataset

data = pd.DataFrame({

    'Bedrooms': [3, 2, 4, 3, 4, 2, 5, 3, 4, 3],

    'Square Footage': [1200, 1500, 2000, 1300, 1800, 1600, 2200, 2500, 2800, 2100],

    'Price (in $1000)': [150, 200, 250, 180, 220, 210, 280, 140, 320, 290]

})

# Split the data into features (X) and the target variable (y)

X = data[['Bedrooms', 'Square Footage']]

y = data['Price (in $1000)']

# Split the data into training and testing sets (80% training, 20% testing)

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

# Build a Linear Regression model and train it on the training data

model = LinearRegression()

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

# Make predictions on the test data

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

# Evaluate the model's performance using mean squared error and R-squared

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

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

print("Mean Squared Error:", mse)

print("R-squared:", r2)