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, mean\_absolute\_error

import numpy as np

# Read the CSV file into a pandas DataFrame

df = pd.read\_csv("your\_file.csv")

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

X = df.drop('House\_Price', axis=1) # Assuming 'House\_Price' is the target variable

y = df['House\_Price']

# 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)

# Create a linear regression model

model = LinearRegression()

# Train the model on the training data

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

# Make predictions on the testing data

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

# Calculate evaluation metrics

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

mae = mean\_absolute\_error(y\_test, y\_pred)

mape = np.mean(np.abs((y\_test - y\_pred) / y\_test)) \* 100

rmse = np.sqrt(mse)

# Print the evaluation metrics

print("Mean Squared Error (MSE):", mse)

print("Mean Absolute Error (MAE):", mae)

print("Mean Absolute Percentage Error (MAPE):", mape)

print("Root Mean Squared Error (RMSE):", rmse)