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from sklearn.linear_model import LinearRegression
from sklearn.metrics import mean_squared_error, r2_score
from sklearn.model_selection import train_test_split
import numpy as np
import random
import pandas as pd
# read the data into a Pandas Data Frame
data = pd.read_csv("https://archive.ics.uci.edu/ml/machine-
learning-databases/cpu-performance/machine.data", header=None)
# label the columns of the Data Frame
data.columns=["vendor", "Model", "MYCT", "MMIN", "MMAX", "CACH", \
   "CHMIN", "CHMAX", "PRP", "ERP"]
# select the x and y values
xvals=data["PRP"]
yvals=data["ERP"]
# Shuffle indices for test/train split
xtrain, xtest, ytrain, ytest=\
  train_test_split(np.array(xvals).reshape(-1,1), \
                    np.array(yvals))
# perform the regression using TRAIN set
# and print the fit values
r=LinearRegression().fit(xtrain, ytrain)
print("intercept=",r.intercept_[0], "slope=",r.coef_[0,0])
# make a prediction using TEST data and print basic metrics
P=r.predict(xtest)
MSE = mean_squared_error(ytest,P)
R2=r2_score(ytest,P)
print("MSE=", MSE, "R2=", R2)
```