import pandas as pd

Mydataset=pd.read\_csv(‘winequality-white.csv’, delimiter=’;’)

Z=mydataset.drop(‘quality’,1,inplace=False)

Y=mydataset.loc[ ::,‘quality’]

import numpy as np

from numpy.linalg import inv

B=((inv(Z.T.dot(Z))).dot(Z.T)).dot(Y)

R=(abs(Z.dot(B)-Y))\*\*2

Res=0

for i in range (4898):

Res=Res+R[i]

print (Res)

**M=Z.mean(0)**

**Z=np.array(Z)**

**for k in range (11):**

**Z[::,k]=Z[::,k]-M[k]**

**E=Np.std(Z,0)**

**for k in range (11):**

**Z[::,k]=Z[::,k]/E[k]**

**Res=0**

**for i in range (4898):**

**Res=Res+R[i]**

**print (Res)**