"""

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"Import libraries"

import pandas as pd

from sklearn.linear\_model import LogisticRegression

"Read dataset file in CSV format"

grid=pd.read\_csv("Data\_for\_UCI\_named.csv")

print(grid.head())

print(grid.describe())

"Store independent variables in X and dependent variable in Y"

X=grid.drop(['stabf'],axis=1)

Y=grid['stabf']

"Splitting the data into train and test data"

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

X\_train, X\_test, Y\_train, Y\_test = train\_test\_split(X,Y,test\_size=0.20,random\_state=0)

"Linear Regression Model Implementation"

classifier= LogisticRegression(random\_state = 0)

classifier.fit(X\_train,Y\_train)

Y\_pred= classifier.predict(X\_test)

print(Y\_pred)

"Confusion Matrix"

from sklearn.metrics import confusion\_matrix

cm=confusion\_matrix(Y\_test,Y\_pred)

print(cm)

"Count occurence of 'unstable' value in the predicted matrix"

series=pd.Series(Y\_pred)

count = series.str.count("unstable")

A=count.sum(axis = 0, skipna = True)