$$R^2 = \frac{\sum_{i=1}^{n} (y_o - \bar{y}_p)^2}{\sum_{i=1}^{n} (y - \bar{y})^2} \qquad \frac{SS\_Res}{SS\_tot}$$

Logistic Regression :-

Logistic Regression is used to determine the categorical data (yes or no / True or false / 0 or 1) etc kind Result (Discrete) [Linear Regression for continuous data]

Step ①

import train_test_split

define the feature of x. and y

X =

y =

Step ②

import train_test_split.

x_train, x_test, y_train, y_test = train_test_split

(X, y, test_size = 0.3, Random_state = 1)

Step ③ :-

Import Logistic Regression.

from Sklearn.linear-model import Logistic Regression

The to fit x_train and y_train into the model

Logmodel = Logistic Regression()

Logmodel.fit (x_train, y_train).

Step ④ :-

Prediction :-

prediction = logmodel.prediction (x_test)

Step ⑤ :- Report :-

from Sklearn.metrics import classification_Report

classification_Report (y_test, prediction.)

Step ⑥ : accuracy Score :-

from Sklearn.metrics import confusion_matrix

confusion_matrix (y_test, prediction)

from Sklearn.metrics import accuracy_Score

accuracy_Score (y_test, prediction).