Lab-experiment-8

Implementing the Logistic regression

Aim: To implement the Logistic regression on the fourts dataset.

Problem: Given the dataset of fruits, we need to do logistic regression on the given dataset and perf determine the Accuracy of the trains and test dataset

## Algorithm /

## About Logistic Regression

Logistic Regression is a Machine Learning classification algorithm that is used to predict the probability of a categorical dependent variable. In logistic regression, the

dependent variable is a binarry variable that contains data coded as I (yes, success, etc.) or O (no, failure, etc). In other words, the logistic regression model predicts p(y=1) as a function of x.

## Observation ! -

- 1) Binary Logistic regression technique requires the dependent variable to be binary.
- 2) For a binary regression, the factor level 1 of the dependent voriable should represent the desired outcome.
- 3) Only the meaningful voriables should be included.
- 4) The model should have little of no multicollinewity
- 5) Logistic regression requires quite large Sample sizes