# Introduction

This file is a comparative analysis on Cycon’s ability to perform Logistic regression classification. This serves as proof that the Cycon page is able to perform Logistic regression. The following shows Logistic regression results for various datasets.

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| --- | --- |
| **Dataset:** | |
| Shape: (1000, 10)  Classes: Clicked on Ad': 0 or 1 indicated clicking on Ad  Purpose: whether a user clicks on an ad or not | |
| **Comparative Work:**  <https://www.kaggle.com/code/parjanyaadityashukla/logistic-regression-project/notebook> | **Cycon Work:** |
| **Settings:** | |
|  |  |
| **Results:** | |
|  |  |
| **Any Additional Information:** | |
|  | |

Tests/sampleCSV\_MLA\_Classification/advertising.csv

|  |  |
| --- | --- |
| **Dataset:** | |
| Shape: (150, 5)  Classes: Iris-setosa, Iris-versicolor, Iris-virginica  Purpose: Identify class of iris flowers given petal information. | |
| **Comparative Work:**  [**https://www.kaggle.com/code/vinayshaw/iris-species-100-accuracy-using-naive-bayes**](https://www.kaggle.com/code/vinayshaw/iris-species-100-accuracy-using-naive-bayes) | **Cycon Work:** |
| **Settings:** | |
|  | All values are set to default, therefore equals  logreg.fit(X\_train, y\_train) |
| **Results:** | |
|  |  |
| **Any Additional Information:** | |
|  | |

Tests/sampleCSV\_MLA\_Classification/Iris.csv

|  |  |
| --- | --- |
| **Dataset:** | |
| Name - framingham.csv  Shape: (4238, 16)  Classes: TenYearCHD  Purpose: Predict TenYearCHD | |
| **Comparative Work:**  **https://www.kaggle.com/code/bhumitdevni/logistic-regression-86-accuracy/notebook** | **Cycon Work:** |
| **Settings:** | |
|  |  |
| **Results:** | |
|  |  |
| **Any Additional Information:** | |
|  | |

Tests/sampleCSV\_MLA\_Classification/Iris.csv