# Introduction

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

## Iris.csv

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| **Dataset:** | |
| Shape: 150 x 5  Samples: 50 samples for 3 classes  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:** | |
|  |  |
| **Results:** | |
|  |  |
| **Any Additional Information:** | |
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## breast-cancer-wisconsin.data.csv

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| **Dataset:** | |
| Shape: 569x31  Classes: M (Malignant or does have breast cancer) or B (Benign or does not have breast cancer)  Purpose: Determine if the patient is malignant or benign for breast cancer | |
| **Comparative Work:**  [**https://www.kaggle.com/code/raviolli77/random-forest-in-python**](https://www.kaggle.com/code/raviolli77/random-forest-in-python) | **Cycon Work:** |
| **Settings:** | |
|  |  |
| **Results:** | |
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| **Any Additional Information:** | |
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| **Dataset:** | |
| Shape: 683x11  Samples: 444 (2), 239 (4)  Classes: 2 and 4  Purpose: Determine if the person has breast cancer based on health information. | |
| **Comparative Work:**  [**https://www.kaggle.com/code/yasserhessein/breast-cancer-wisconsin-random-forest-classifier/notebook**](https://www.kaggle.com/code/yasserhessein/breast-cancer-wisconsin-random-forest-classifier/notebook) | **Cycon Work:** |
| **Settings:** | |
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| **Results:** | |
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| **Any Additional Information:** | |
| Note that the comparative work used a standard scaler as a preprocess. Currently, no preprocess is available on Cycon. However, cycon is able to get vary similar results, with only 1 difference in labeling a class 4, despite not during scaling. | |