# Introduction

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

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| --- | --- |
| **Dataset:** | |
| Shape: (151, 5)  Classes: column variety  Purpose: predict variety of a flower based on different attribute | |
| **Comparative Work:** https://www.kaggle.com/code/nickthegreek82/perceptron-sklearn | **Cycon Work:** |
| **Settings:** | |
|  |  |
| **Results:** | |
|  |  |
| **Any Additional Information:** | |
|  | |

## iris.csv

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| --- | --- |
| **Dataset:** | |
| Shape: (568, 31)  Classes: column class  Purpose: breast\_cancer detection | |
| **Comparative Work:** https://www.kaggle.com/code/taruntiwarihp/perceptron-python/notebook | **Cycon Work:** |
| **Settings:** | |
|  |  |
| **Results:** | |
|  |  |
| **Any Additional Information:** | |
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breast\_cancer detection.csv

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| --- | --- |
| **Dataset:** | |
| Shape: (1000, 3)  Classes: feature\_1, feature\_2, label  Purpose: Detect class of distribution | |
| **Comparative Work:** https://www.kaggle.com/code/taruntiwarihp/perceptron-python/notebook | **Cycon Work:** |
| **Settings:** | |
|  |  |
| **Results:** | |
|  |  |
| **Any Additional Information:** | |
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blobs\_dataset.csv