

Machine Learning Project Report



Group members

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Submitted to:

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❖Phase 01

➤ **Dataset Name:**

Cucumber plant disease dataset

➤ **Repository Website:**

<https://www.kaggle.com/datasets/kareem3egm/cucumber-plant-diseases-dataset>

➤ **Total Images:**

691

➤ **Classification:**

Binary

➤ **Labeled data:**

Train: 469

Test: 222

➤ **Classes:**

There are two classes.

- Ill_cucumber
- good_cucumber

➤ **Dataset details:**

- Ill_cucumber (350 images)
- good_cucumber (341 images)

Set	Train	Test
Ill_cucumber	227	123
good_cucumber	242	99

❖Phase 02

Take 50 pictures from train and take 20 pictures from test then apply algorithms.

Set	Train	Test
Ill_cucumber	50	20
good_cucumber	50	20

❖Phase 03

Table:

Algorithm	Accuracy (%)	Precision (%)	Recall (%)	F1 Score (%)
Decision tree	65%	65%	65%	64%
KNN	77%	78%	77%	77%
Logistic Regression	80%	81%	80%	79%
SVM	77%	77%	77%	77%
ANN	80%	80%	80%	80%

Github Link:

<https://github.com/ayeshaakabar02/cucumber-plant-disease-dataset.git>