

Total number of classes = 17
Total number of images = 13,324

Class Labels: Corn___Common_Rust, Corn___Gray_Leaf_Spot, Corn___Healthy, Corn___Northern_Leaf_Blight, Potato___Early_Blight, Potato___Healthy, Potato___Late_Blight, Rice___Brown_Spot, Rice___Healthy, Rice___Leaf_Blast, Rice___Neck_Blast, Wheat___Brown_Rust, Wheat___Healthy, Wheat___Yellow_Rust , Sugarcane___Red_Rot , Sugarcane___Healthy , Sugarcane___Bacterial Blight.

Corn Plant Species:

1. Common Rust (1192 images)
2. Gray Leaf Spot (513 images)
3. Healthy (1162 images)
4. Northern Leaf Blight (985 images)

Total images: 3852 images
52,229,657 bytes

All the images of the Corn species has been collected from the PlantVillage dataset [1]. PlantVillage is a standard and most popular leaf image dataset for plant disease detection.

Potato Plant Species:

1. Early Blight (1000 images)
2. Healthy (152 images)
3. Late Blight (1000 images)

Total images: 2152 images
39,441,201 bytes

All the images of the Potato species has been collected from the PlantVillage dataset [1].

Rice Plant Species:

1. Brown Spot (613 images)
2. Healthy (1488 images)
3. Leaf Blast (977 images)
4. Neck Blast (1000 images)

Total images: 4078 images
2,105,364,423 bytes

Rice images were collected from the datasets:

1. Dhan-Shomadhan: A Dataset of Rice Leaf Disease Classification for Bangladeshi Local Rice [2].

The images from the Leaf background images of the classes Brown Spot and Rice Blast was added to the classes Rice___Brown_Spot and Rice___Leaf_Blast to increase the number of training samples. This dataset has the license CC BY 4.0 [3]. The images were not changed or edited.

2. "Rice Leafs" dataset from Kaggle [4].

The images of this dataset was added to the classes Rice___Brown_Spot, Rice___Healthy, and Rice___Leaf_Blast.

Wheat Plant Species:

1. Brown Rust (902 images)
2. Healthy (1116 images)
3. Yellow Rust (924 images)

Total images: 2942 images
405,695,274 bytes

Wheat images were collected from the datasets:
"Wheat Disease Detection" dataset from Kaggle [5].

SugarCane Plant Species:

1. Red Rot (100 images)
2. Healthy (100 images)
3. Bacterial Blight (100 images)

Total images: 300 images
2,18,41,29,319 bytes

SugarCane Images were collected from the datasets:
"Sugarcane Disease Dataset" dataset from kaggle [6].

References:

- [1] D. P. Hughes and M. Salathe, "An open access repository of images on plant health to enable the development of mobile disease diagnostics," 2015, [Online]. Available: <http://arxiv.org/abs/1511.08060>.
- [2] Hossain, Md Fahad; Abujar , Sheikh ; Noori, Sheak Rashed Haider ; Hossain, Syed Akhter (2021), "Dhan-Shomadhan: A Dataset of Rice Leaf Disease Classification for Bangladeshi Local Rice", Mendeley Data, V1, doi: 10.17632/znsxdctwtt.1
- [3] "Creative Commons – Attribution 4.0 International – CC BY 4.0", Creativecommons.org, 2022. [Online]. Available: <https://creativecommons.org/licenses/by/4.0/>. [Accessed: 11- Jun- 2022]
- [4] S. RIYAZ, "Rice Leafs", Kaggle.com, 2022. [Online]. Available: <https://www.kaggle.com/datasets/shayanriyaz/riceleafs>. [Accessed: 11- Jun- 2022]
- [5] S. DUNK, "Wheat Disease Detection", Kaggle.com, 2022. [Online]. Available: <https://www.kaggle.com/datasets/sinadunk23/behzad-safari-jalal>. [Accessed: 11- Jun- 2022]