Machine Learning

Image Dataset Documentation

Plant Disease Dataset

* Classes and Number of Samples:
  + Pepper Bell Bacterial Spot: 997
  + Pepper Bell Healthy: 1478
  + Potato Early Blight: 1000
  + Potato Late Blight: 1000
  + Tomato Early Blight: 1000
* Image Size
  + 150x150
* Number of Training Samples
  + 4106
* Number of Testing Samples
  + 1369
* Number of Features ( Pixels )
  + 67500
* Results for Model Testing Data
  + Logistic Regression
    - Accuracy: 0.78
    - Precision: 0.78
    - Recall: 0.78
    - AUC: 0.94
  + KNN
    - Accuracy: 0.55
    - Precision: 0.69
    - Recall: 0.55
    - AUC: 0.81
  + Graphs for ROC are available in the Notebook