Phase 15 : Applying ML and Deep Learning

Preprocessing Images:

* Using Contours and masks with Gaussian blur and Otsu have given better results when compared to the previous approach by using just Gaussian blur and Otsu algorithm.
* Spots identified as background has been reduced resulting in better focusing on the plant.
* Divided the images into the health and unhealth folders

ML / Deep Learning models:

* The dataset consisting of images have been divided into train and test.
* For working on the preprocessed images, By using sklearn the images are passed into the models for training and testing.
  + Support Vector Machine
  + Logistic Regression
  + KNN classifier
* The models were able to predict the values.

Chart, treemap chart

Description automatically generated