Phase 14

The image is preprocessed for focusing on the plant area rather than the excess background.

The image is converted into the grayscale image and gaussian blur is applied along with OTSU algorithm in which the result would be focusing on plant.

Converting a greyscale image to monochrome is a common image processing task. Otsu's method, named after its inventor Nobuyuki Otsu, is one of many binarization algorithms. Otsu's thresholding method involves iterating through all the possible threshold values and calculating a measure of spread for the pixel levels each side of the threshold, i.e. the pixels that either fall in foreground or background. The aim is to find the threshold value where the sum of foreground and background spreads is at its minimum.

Background pattern

Description automatically generated

Chart, scatter chart

Description automatically generated

A picture containing calendar

Description automatically generated

For NDVI calculation colors play important role. So calculated color feature from images Extracted NIR, Red and Green bands from the images.

Texture features helps us in identifying the region of interest. Texture features like Correlation, entropy contrast have been taken.

