Advanced Plot Segmentation in Precision Agriculture

This illustration details how modern computer vision techniques are applied to analyze and segment agricultural fields.

1

Data Preparation

Mounting the drive and loading image and mask datasets.

2

Data Visualization

Using the **Visualizer** class to display images and their corresponding masks.

3

Image Processing

Application of **filters** and **data augmentation** techniques to enhance image quality for segmentation.

4

Model Training

Setting up and training the **ResUNet** model for image segmentation.

5

Model Evaluation

Evaluating the model using the test set and metrics such as the Dice Coefficient.

6

Final Results

Visualization of the final segmentation results.