Image data:

- Tomato Leaf DIseases Detect Dataset > Overview (roboflow.com)
- Number of training data: 92 (31 test images, 61 validation images)
- Classes
 - 0: Bacterial Spot
 - 1: Early_Blight
 - 2: Healthy
 - 3: Late_blight
 - 4: Leaf Mold
 - 5: Target_Spot
 - 6: black spot

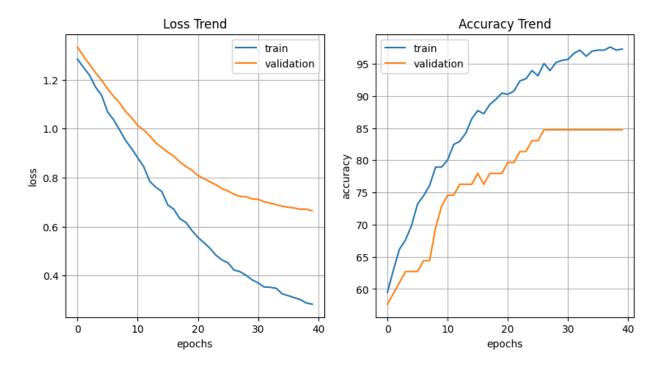


Deep learning model:

- The visionTransformer (<u>VisionTransformer</u> <u>Torchvision 0.19 documentation</u> (<u>pytorch.org</u>))
- Used pretrained weights (vit b 16 Torchvision 0.19 documentation (pytorch.org)
- Modified header of model to classify 7 types of disease.
- Used Google colab with T4 GPU.
- With 40 epochs, it took 21 minutes to train.

Result:

• 97.29% training accuracy and 84.75 validation accuracy.



Classification example.

