FSL Reports

Dataset:

The dataset is used for few shot learning is transistor defected images

Path: “dataset/transistor/test”

Model:

The trained model is saved in path: “models/fsl\_classifier.pth”

Codes:

For training: “src/fsl\_train.py”

For testing: “src/fsl\_detect.py”

Reports:

It is a traditional few shot learning model with torch and torchvision libraries and model used is resnet50.

Accuracy is good for different kinds of materials but for same material with defects accuracy is less.

Solutions can be tried:

* Feature extraction of images
* Preprocessing of images by gray scaling or binarizing
* By object detecting the transistor at first and later just transistor image fsl training and detection