ZSL Reports

Dataset:

The dataset is used for zero shot learning is carpet defected images.

Path: “dataset/carpet/test”

Model:

The trained model is saved in path: “models/best\_svm\_model.pkl”

Attributes:

Custom attributes generated for this project using code “src/attribute.py”

And generated attributes saved in “models/attribute\_vectors.npy”

Codes:

For training: “src/zsl\_train.py”

For testing: “src/zsl\_detect.py”

Reports:

It is a traditional zero shot learning model with Tensorflow and sklearn libraries and model used is vgg16.

Accuracy is good before fine tuning after fine tuning accuracy become less need to work on fine tuning.

To further fine tune can be tried:

* Augmentation for more images and for more features of carpet by rotation, flip, saturation, brightness, and by combination of augmentation
* Could be tried with gray scaled or binary images of carpets.
* Need to review the fine tuning process