Assignment 2 - Submission: 25/7/2022

On fruit dataset, you are required to prepare one notebook that can run on google colab containing:

1) The training of a \*\*model on the dataset as is.

super().\_\_init\_\_()

        resnet18 = models.resnet18(pretrained=pretrained)

        self.features = nn.ModuleList(resnet18.children())[:-1]

        self.features = nn.Sequential(\*self.features)

        in\_features = resnet18.fc.in\_features

        self.fc0 = nn.Linear(in\_features, 256)

        # self.bn1 = nn.BatchNorm1d(256, eps = 1e-2)

        self.classifier = nn.Linear(256, 4)

        self.relu = nn.ReLU()

        # initialize all fc layers to xavier

        for m in self.modules():

            if isinstance(m, nn.Linear):

                torch.nn.init.xavier\_normal\_(m.weight, gain = 1)

2) The training of the model on the dataset after modification to improve the performance of the model.

My modification :

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3) The training of the model on the dataset after data-centric strategies.

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4) Save the final model and load again on the notebook. Perform inference on 3 new samples (fruit data captured from your phone).





