

Model Architecture:

RESNet 50

I referred to the Resnet for CIFAR-10 dataset for the network parameters, including kernel size, paddings, etc, since it has the same resolution as our dataset.

Loss Function:

Cross entropy loss

Hyper Parameters:

Batch size: 256

Learning rate: 0.01

Momentum: 0.9

Weight Decay: 5e-4

Learning rate step: 0.95/epoch

Augmentation:

ColorJitter(brightness=0.5, contrast=0.5, saturation=0.5, hue=0.5),

RandomHorizontalFlip(p=0.5),

RandomGrayscale(p=0.1),

RandomCrop(size=28, pad_if_needed=True),

Normalize(mean=[0.485, 0.456, 0.406], std=[0.229, 0.224, 0.225])