CLS

This is a PyTorch implementation of CLS.

Usage

Train

Train the model by 4000 labeled data of CIFAR-10 dataset:

```
python train.py --dataset cifar10 --num-labeled 4000 --arch
wideresnet --batch-size 64 --lr 0.03 --seed 5 --out
results/cifar10@4000.5
```

Train the model by 10000 labeled data of CIFAR-100 dataset by using DistributedDataParallel:

```
python -m torch.distributed.launch --nproc_per_node 4 ./train.py
--dataset cifar100 --num-labeled 10000 --arch wideresnet --batch-
size 16 --lr 0.03 --wdecay 0.001 --seed 5 --out
results/cifar100@10000.5
```

Monitoring training progress

```
1 tensorboard --logdir=<your out_dir>
```

Requirements

- python 3.6+
- torch 1.4
- torchvision 0.5
- tensorboard
- numpy
- tqdm
- apex (optional)