Panneerselvam N (09/09/2021)

Today i had trained faster rcnn model upto 149499 iterations with more augmentation.

Previous Checkpoint: 138000

Test:

Augmentation: Resize(1024), HFlip

```
09/09 03:58:44 d2.evaluation.fast_eval_api]: COCOeval opt.accumulate() finished in 0.02 seconds
| area=
Average Precision (AP) @[ IoU=0.50
                                               all | maxDets=100 ] = 0.565
Average Recall (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] = 0. 09/09 03:58:44 d2.evaluation.coco_evaluation]: Evaluation results for bbox:
AP | AP50 | AP75 | APs | APm | APl
:----:|:----:|:----:
38.352 | 56.507 | 41.474 | 23.209 | 50.253 | 55.211 | 09/09 03:58:44 d2.evaluation.coco_evaluation]: Per-category bbox AP:
           AP | category | AP | category | AP
 aeroplane
           64.450 | car
                               | 26.561 | chair
                                                        30.293
            58.988 person
                                 20.008
                                                        29.813
 COW
                                         traffic light |
```

```
Total inference time: 0:02:17.554629 (0.743539 s / iter per device, on 1 devices)

Total inference pure compute time: 0:02:16 (0.740199 s / iter per device, on 1 devices)
```

Train:

```
Total inference time: 0:08:27.085180 (0.741353 s / iter per device, on 1 devices)
Total inference pure compute time: 0:08:24 (0.738200 s / iter per device, on 1 devices)
```

Current Chechpoints: 149500 itr

Augmetation: Resize(1024), Hflip, Random brightness, Random Rotation,

Random crop

Test:

```
[09/09 14:34:01 d2.evaluation.fast_eval_api]: Evaluate annotation type *bbox*
[09/09 14:34:02 d2.evaluation.fast_eval_api]: COCOeval opt.evaluate() finished in 0.11 seconds.
[09/09 14:34:02 d2.evaluation.fast_eval_api]: Accumulating evaluation results..
[09/09 14:34:02 d2.evaluation.fast_eval_api]: COCOeval opt.accumulate() finished in 0.02 seconds.

Average Precision (AP) @[ IoU=0.50:0.95 | area= all | maxDets=100 ] = 0.203

Average Precision (AP) @[ IoU=0.55 | area= all | maxDets=100 ] = 0.520

Average Precision (AP) @[ IoU=0.75 | area= all | maxDets=100 ] = 0.086

Average Precision (AP) @[ IoU=0.50:0.95 | area= small | maxDets=100 ] = 0.156

Average Precision (AP) @[ IoU=0.50:0.95 | area=medium | maxDets=100 ] = 0.287

Average Precision (AP) @[ IoU=0.50:0.95 | area= all | maxDets=100 ] = 0.287

Average Recall (AR) @[ IoU=0.50:0.95 | area= all | maxDets=100 ] = 0.287

Average Recall (AR) @[ IoU=0.50:0.95 | area= all | maxDets=100 ] = 0.374

Average Recall (AR) @[ IoU=0.50:0.95 | area= all | maxDets=100 ] = 0.374

Average Recall (AR) @[ IoU=0.50:0.95 | area= all | maxDets=100 ] = 0.426

Average Recall (AR) @[ IoU=0.50:0.95 | area= medium | maxDets=100 ] = 0.426

Average Recall (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] = 0.426

Average Recall (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] = 0.426

Average Recall (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] = 0.426

Average Recall (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] = 0.426

Average Recall (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] = 0.426

Average Recall (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] = 0.426

Average Recall (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] = 0.426

Average Recall (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] = 0.426

Average Recall (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] = 0.426

Average Recall (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] = 0.426

Average Recall (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] = 0.426

Average Recall (AR) @[ IoU=0
```

Total inference time: 0:02:26.119563 (0.789835 s / iter per device, on 1 devices)
Total inference pure compute time: 0:02:21 (0.763777 s / iter per device, on 1 devices)

Train:

Inference done 686/689. Dataloading: 0.0023 s/iter. Inference: 0.7593 s/iter. Eval: 0.0003 Total inference time: 0:08:41.578473 (0.762542 s / iter per device, on 1 devices) Total inference pure compute time: 0:08:39 (0.759366 s / iter per device, on 1 devices)