

# Work Report

14.07.2021

Today's tasks

## Task-01: Pp-yolo\_500instances

Github link: of notebook:

[https://github.com/vidyabandgar97/A2A/blob/main/pp\\_yolo\\_500instances\\_14\\_07.ipynb](https://github.com/vidyabandgar97/A2A/blob/main/pp_yolo_500instances_14_07.ipynb)

```
[07/14 08:21:57] pldet.engine INFO: epoch: 1651 [20/66] Learning_rate: 0.000010 loss_y: 2.638791 loss_gh: 3.281363 loss_lou: 9.459474 loss_lou_aware: 1.836835 loss_pbj: 17.951153 loss_cls: 6.402526 loss: 43.201504 eta: 15:53:57 batch_cost: 0.7951
[07/14 08:22:13] pldet.engine INFO: epoch: 1651 [40/66] Learning_rate: 0.000010 loss_y: 2.778875 loss_gh: 3.631212 loss_lou: 8.721710 loss_lou_aware: 1.654874 loss_pbj: 18.268647 loss_cls: 6.073650 loss: 39.209167 eta: 15:43:34 batch_cost: 0.7417
[07/14 08:22:31] pldet.engine INFO: epoch: 1651 [60/66] Learning_rate: 0.000010 loss_y: 2.451330 loss_gh: 2.893650 loss_lou: 8.376900 loss_lou_aware: 1.641556 loss_pbj: 17.947784 loss_cls: 5.363334 loss: 38.219376 eta: 15:53:19 batch_cost: 0.802
[07/14 08:22:49] pldet.engine INFO: epoch: 1651 [80/66] Learning_rate: 0.000010 loss_y: 2.068160 loss_gh: 2.266040 loss_lou: 8.258556 loss_lou_aware: 1.630792 loss_pbj: 16.893922 loss_cls: 5.552291 loss: 39.287612 eta: 15:53:06 batch_cost: 0.822
[07/14 08:23:04] pldet.engine INFO: epoch: 1651 [100/66] Learning_rate: 0.000010 loss_y: 2.326706 loss_gh: 3.046725 loss_lou: 8.312044 loss_lou_aware: 1.621171 loss_pbj: 16.938778 loss_cls: 5.552291 loss: 38.467995 eta: 15:52:59 batch_cost: 0.774
[07/14 08:23:12] pldet.engine INFO: epoch: 1651 [120/66] Learning_rate: 0.000010 loss_y: 2.571962 loss_gh: 3.141246 loss_lou: 8.964062 loss_lou_aware: 1.771842 loss_pbj: 18.306664 loss_cls: 6.175561 loss: 42.930122 eta: 15:52:44 batch_cost: 0.804
[07/14 08:23:28] pldet.engine INFO: epoch: 1651 [140/66] Learning_rate: 0.000010 loss_y: 2.464188 loss_gh: 3.332812 loss_lou: 9.435147 loss_lou_aware: 1.809727 loss_pbj: 18.433272 loss_cls: 6.307851 loss: 41.626446 eta: 15:52:19 batch_cost: 0.784
[07/14 08:23:45] pldet.engine INFO: epoch: 1651 [160/66] Learning_rate: 0.000010 loss_y: 2.527283 loss_gh: 3.188217 loss_lou: 8.990919 loss_lou_aware: 1.877650 loss_pbj: 19.409780 loss_cls: 5.991880 loss: 43.240379 eta: 15:52:03 batch_cost: 0.793
[07/14 08:24:03] pldet.engine INFO: epoch: 1651 [180/66] Learning_rate: 0.000010 loss_y: 2.336143 loss_gh: 2.927180 loss_lou: 8.886654 loss_lou_aware: 1.741152 loss_pbj: 17.950615 loss_cls: 5.981494 loss: 39.236237 eta: 15:51:53 batch_cost: 0.845
[07/14 08:24:10] pldet.engine INFO: epoch: 1651 [200/66] Learning_rate: 0.000010 loss_y: 2.363390 loss_gh: 2.833771 loss_lou: 8.885554 loss_lou_aware: 1.815216 loss_pbj: 17.950615 loss_cls: 6.114281 loss: 39.967700 eta: 15:51:52 batch_cost: 0.818
[07/14 08:24:28] pldet.engine INFO: epoch: 1651 [220/66] Learning_rate: 0.000010 loss_y: 2.293540 loss_gh: 2.329489 loss_lou: 8.422809 loss_lou_aware: 1.630334 loss_pbj: 17.077854 loss_cls: 5.447514 loss: 37.436764 eta: 15:51:37 batch_cost: 0.809
[07/14 08:24:46] pldet.engine INFO: epoch: 1651 [240/66] Learning_rate: 0.000010 loss_y: 2.197577 loss_gh: 1.917777 loss_lou: 8.115955 loss_lou_aware: 1.624435 loss_pbj: 17.441849 loss_cls: 5.873904 loss: 37.985046 eta: 15:51:22 batch_cost: 0.802
[07/14 08:25:03] pldet.engine INFO: epoch: 1651 [260/66] Learning_rate: 0.000010 loss_y: 2.526032 loss_gh: 3.207517 loss_lou: 9.202434 loss_lou_aware: 1.673100 loss_pbj: 17.477540 loss_cls: 6.013840 loss: 41.573421 eta: 15:51:09 batch_cost: 0.813
[07/14 08:25:19] pldet.engine INFO: epoch: 1651 [280/66] Learning_rate: 0.000010 loss_y: 2.497215 loss_gh: 3.008120 loss_lou: 9.003163 loss_lou_aware: 1.746289 loss_pbj: 18.262312 loss_cls: 6.420194 loss: 39.816902 eta: 15:50:47 batch_cost: 0.736
[07/14 08:25:25] pldet.engine INFO: epoch: 1651 [300/66] Learning_rate: 0.000010 loss_y: 2.645362 loss_gh: 3.514931 loss_lou: 9.437387 loss_lou_aware: 1.758561 loss_pbj: 18.100391 loss_cls: 6.420194 loss: 42.355976 eta: 15:50:40 batch_cost: 0.745
[07/14 08:25:41] pldet.engine INFO: epoch: 1651 [320/66] Learning_rate: 0.000010 loss_y: 2.233866 loss_gh: 2.585820 loss_lou: 8.278663 loss_lou_aware: 1.722907 loss_pbj: 16.741984 loss_cls: 6.308419 loss: 37.070175 eta: 15:50:12 batch_cost: 0.668
[07/14 08:25:58] pldet.engine INFO: epoch: 1651 [340/66] Learning_rate: 0.000010 loss_y: 2.435427 loss_gh: 2.431572 loss_lou: 7.171891 loss_lou_aware: 1.414212 loss_pbj: 15.871989 loss_cls: 4.986141 loss: 35.485283 eta: 15:49:54 batch_cost: 0.771
[07/14 08:26:14] pldet.engine INFO: epoch: 1651 [360/66] Learning_rate: 0.000010 loss_y: 2.670916 loss_gh: 3.563127 loss_lou: 9.155109 loss_lou_aware: 1.874833 loss_pbj: 19.892651 loss_cls: 6.124234 loss: 43.046459 eta: 15:49:33 batch_cost: 0.750
[07/14 08:26:30] pldet.engine INFO: epoch: 1651 [380/66] Learning_rate: 0.000010 loss_y: 2.674981 loss_gh: 3.991252 loss_lou: 8.514128 loss_lou_aware: 1.778235 loss_pbj: 18.518896 loss_cls: 6.964636 loss: 41.031300 eta: 15:49:11 batch_cost: 0.720
[07/14 08:26:36] pldet.engine INFO: epoch: 1651 [400/66] Learning_rate: 0.000010 loss_y: 2.008285 loss_gh: 2.651140 loss_lou: 8.031448 loss_lou_aware: 1.953200 loss_pbj: 19.597576 loss_cls: 6.836421 loss: 35.453181 eta: 15:49:04 batch_cost: 0.72
[07/14 08:26:53] pldet.engine INFO: epoch: 1651 [420/66] Learning_rate: 0.000010 loss_y: 2.651614 loss_gh: 3.517306 loss_lou: 9.853573 loss_lou_aware: 1.977101 loss_pbj: 17.138800 loss_cls: 6.978689 loss: 43.935997 eta: 15:48:48 batch_cost: 0.769
[07/14 08:27:11] pldet.engine INFO: epoch: 1651 [440/66] Learning_rate: 0.000010 loss_y: 2.279358 loss_gh: 2.736613 loss_lou: 8.559554 loss_lou_aware: 1.560861 loss_pbj: 17.703800 loss_cls: 5.321413 loss: 36.745911 eta: 15:48:35 batch_cost: 0.842
[07/14 08:27:30] pldet.engine INFO: epoch: 1651 [460/66] Learning_rate: 0.000010 loss_y: 2.204232 loss_gh: 2.671633 loss_lou: 7.812222 loss_lou_aware: 1.648497 loss_cls: 5.904656 loss: 35.874851 eta: 15:48:25 batch_cost: 0.843
[07/14 08:27:48] pldet.engine INFO: epoch: 1651 [480/66] Learning_rate: 0.000010 loss_y: 2.445007 loss_gh: 2.880257 loss_lou: 8.698080 loss_lou_aware: 1.725570 loss_pbj: 18.432543 loss_cls: 6.702659 loss: 41.376242 eta: 15:48:13 batch_cost: 0.831
[07/14 08:27:56] pldet.engine INFO: epoch: 1651 [500/66] Learning_rate: 0.000010 loss_y: 2.250581 loss_gh: 2.772551 loss_lou: 8.362379 loss_lou_aware: 1.650975 loss_pbj: 18.135675 loss_cls: 5.728356 loss: 38.416989 eta: 15:48:10 batch_cost: 0.926
[07/14 08:28:14] pldet.engine INFO: epoch: 1651 [520/66] Learning_rate: 0.000010 loss_y: 2.393718 loss_gh: 2.928478 loss_lou: 8.377827 loss_lou_aware: 1.670286 loss_pbj: 18.583780 loss_cls: 6.005336 loss: 40.543137 eta: 15:48:08 batch_cost: 0.850
[07/14 08:28:32] pldet.engine INFO: epoch: 1651 [540/66] Learning_rate: 0.000010 loss_y: 2.646931 loss_gh: 2.856283 loss_lou: 8.697202 loss_lou_aware: 1.932544 loss_pbj: 20.412706 loss_cls: 7.179946 loss: 45.990044 eta: 15:47:54 batch_cost: 0.810
[07/14 08:28:49] pldet.engine INFO: epoch: 1651 [560/66] Learning_rate: 0.000010 loss_y: 2.479577 loss_gh: 3.635200 loss_lou: 9.996085 loss_lou_aware: 1.844011 loss_pbj: 17.925779 loss_cls: 6.473199 loss: 42.420395 eta: 15:47:37 batch_cost: 0.780
[07/14 08:29:08] pldet.engine INFO: epoch: 1651 [580/66] Learning_rate: 0.000010 loss_y: 2.671722 loss_gh: 3.560777 loss_lou: 9.220376 loss_lou_aware: 1.818708 loss_pbj: 19.538876 loss_cls: 6.508071 loss: 42.908451 eta: 15:47:29 batch_cost: 0.877
[07/14 08:29:14] pldet.engine INFO: epoch: 1651 [600/66] Learning_rate: 0.000010 loss_y: 2.337953 loss_gh: 3.260913 loss_lou: 8.784267 loss_lou_aware: 1.695704 loss_pbj: 17.732311 loss_cls: 5.692865 loss: 38.882446 eta: 15:47:24 batch_cost: 0.845
[07/14 08:29:30] pldet.engine INFO: epoch: 1651 [620/66] Learning_rate: 0.000010 loss_y: 2.493944 loss_gh: 3.555654 loss_lou: 9.661132 loss_lou_aware: 1.867334 loss_pbj: 18.784664 loss_cls: 6.716720 loss: 43.315586 eta: 15:46:59 batch_cost: 0.707
[07/14 08:29:46] pldet.engine INFO: epoch: 1651 [640/66] Learning_rate: 0.000010 loss_y: 2.253529 loss_gh: 2.698867 loss_lou: 9.063794 loss_lou_aware: 1.702361 loss_pbj: 16.145259 loss_cls: 5.908059 loss: 39.150742 eta: 15:46:48 batch_cost: 0.755
[07/14 08:30:04] pldet.engine INFO: epoch: 1651 [660/66] Learning_rate: 0.000010 loss_y: 2.479514 loss_gh: 3.020817 loss_lou: 9.165090 loss_lou_aware: 1.713080 loss_pbj: 17.474625 loss_cls: 6.088320 loss: 39.304279 eta: 15:46:28 batch_cost: 0.836
[07/14 08:30:21] pldet.engine INFO: epoch: 1651 [680/66] Learning_rate: 0.000010 loss_y: 2.441892 loss_gh: 3.413205 loss_lou: 9.490872 loss_lou_aware: 1.746300 loss_pbj: 17.678751 loss_cls: 5.888176 loss: 39.235176 eta: 15:46:07 batch_cost: 0.741
[07/14 08:30:26] pldet.engine INFO: epoch: 1651 [700/66] Learning_rate: 0.000010 loss_y: 2.516020 loss_gh: 3.026530 loss_lou: 9.258952 loss_lou_aware: 1.914939 loss_cls: 6.420900 loss: 41.241753 eta: 15:46:00 batch_cost: 0.720
[07/14 08:30:45] pldet.engine INFO: epoch: 1651 [720/66] Learning_rate: 0.000010 loss_y: 2.338152 loss_gh: 2.758482 loss_lou: 7.894227 loss_lou_aware: 1.630628 loss_pbj: 17.505260 loss_cls: 5.748863 loss: 37.361320 eta: 15:45:43 batch_cost: 0.825
[07/14 08:31:01] pldet.engine INFO: epoch: 1651 [740/66] Learning_rate: 0.000010 loss_y: 2.510990 loss_gh: 2.801461 loss_lou: 8.410990 loss_lou_aware: 1.656062 loss_pbj: 16.760284 loss_cls: 5.508986 loss: 37.016911 eta: 15:45:28 batch_cost: 0.758
[07/14 08:31:18] pldet.engine INFO: epoch: 1651 [760/66] Learning_rate: 0.000010 loss_y: 2.170834 loss_gh: 3.080234 loss_lou: 8.212448 loss_lou_aware: 1.651644 loss_pbj: 16.225634 loss_cls: 5.454477 loss: 36.908980 eta: 15:45:09 batch_cost: 0.769
[07/14 08:31:35] pldet.engine INFO: epoch: 1651 [780/66] Learning_rate: 0.000010 loss_y: 2.406185 loss_gh: 3.235450 loss_lou: 8.940580 loss_lou_aware: 1.757603 loss_pbj: 18.464610 loss_cls: 5.849282 loss: 41.407829 eta: 15:44:53 batch_cost: 0.794
[07/14 08:31:41] pldet.engine INFO: epoch: 1651 [800/66] Learning_rate: 0.000010 loss_y: 2.406185 loss_gh: 3.198848 loss_lou: 8.940580 loss_lou_aware: 1.748154 loss_pbj: 18.193787 loss_cls: 5.849282 loss: 41.407829 eta: 15:44:47 batch_cost: 0.785
[07/14 08:32:00] pldet.engine INFO: epoch: 1651 [820/66] Learning_rate: 0.000010 loss_y: 2.799218 loss_gh: 3.220485 loss_lou: 8.959113 loss_lou_aware: 1.967109 loss_pbj: 20.450899 loss_cls: 7.144641 loss: 46.276981 eta: 15:44:34 batch_cost: 0.824
[07/14 08:32:17] pldet.engine INFO: epoch: 1651 [840/66] Learning_rate: 0.000010 loss_y: 2.354740 loss_gh: 2.804040 loss_lou: 8.829002 loss_lou_aware: 1.630407 loss_pbj: 17.519295 loss_cls: 5.536610 loss: 39.886460 eta: 15:44:19 batch_cost: 0.796
[07/14 08:32:36] pldet.engine INFO: epoch: 1651 [860/66] Learning_rate: 0.000010 loss_y: 2.208954 loss_gh: 2.453931 loss_lou: 7.604016 loss_lou_aware: 1.606911 loss_pbj: 16.957841 loss_cls: 5.376403 loss: 37.672311 eta: 15:44:10 batch_cost: 0.869
[07/14 08:32:53] pldet.engine INFO: epoch: 1651 [880/66] Learning_rate: 0.000010 loss_y: 2.507264 loss_gh: 3.080359 loss_lou: 9.226460 loss_lou_aware: 1.727510 loss_pbj: 17.774156 loss_cls: 6.106210 loss: 44.200172 eta: 15:43:52 batch_cost: 0.773
[07/14 08:32:59] pldet.engine INFO: epoch: 1651 [900/66] Learning_rate: 0.000010 loss_y: 2.339672 loss_gh: 2.948481 loss_lou: 8.825422 loss_lou_aware: 1.688763 loss_pbj: 17.111301 loss_cls: 5.795744 loss: 40.501646 eta: 15:43:36 batch_cost: 0.770
[07/14 08:33:15] pldet.engine INFO: epoch: 1651 [920/66] Learning_rate: 0.000010 loss_y: 2.642185 loss_gh: 3.264446 loss_lou: 9.295868 loss_lou_aware: 1.893014 loss_cls: 7.143471 eta: 15:43:25 batch_cost: 0.698
[07/14 08:33:31] pldet.engine INFO: epoch: 1651 [940/66] Learning_rate: 0.000010 loss_y: 2.440956 loss_gh: 3.061757 loss_lou: 9.011551 loss_lou_aware: 1.705160 loss_pbj: 18.312340 loss_cls: 5.779774 loss: 40.742592 eta: 15:43:04 batch_cost: 0.736
[07/14 08:33:48] pldet.engine INFO: epoch: 1651 [960/66] Learning_rate: 0.000010 loss_y: 2.146034 loss_gh: 2.641935 loss_lou: 7.552599 loss_lou_aware: 1.550472 loss_pbj: 17.373938 loss_cls: 5.628370 loss: 35.723274 eta: 15:42:46 batch_cost: 0.777
```

Batch size =8

Learning rate=0.001

Epochs= 170

loss=35.72..

## Task -02:

New dataset collection

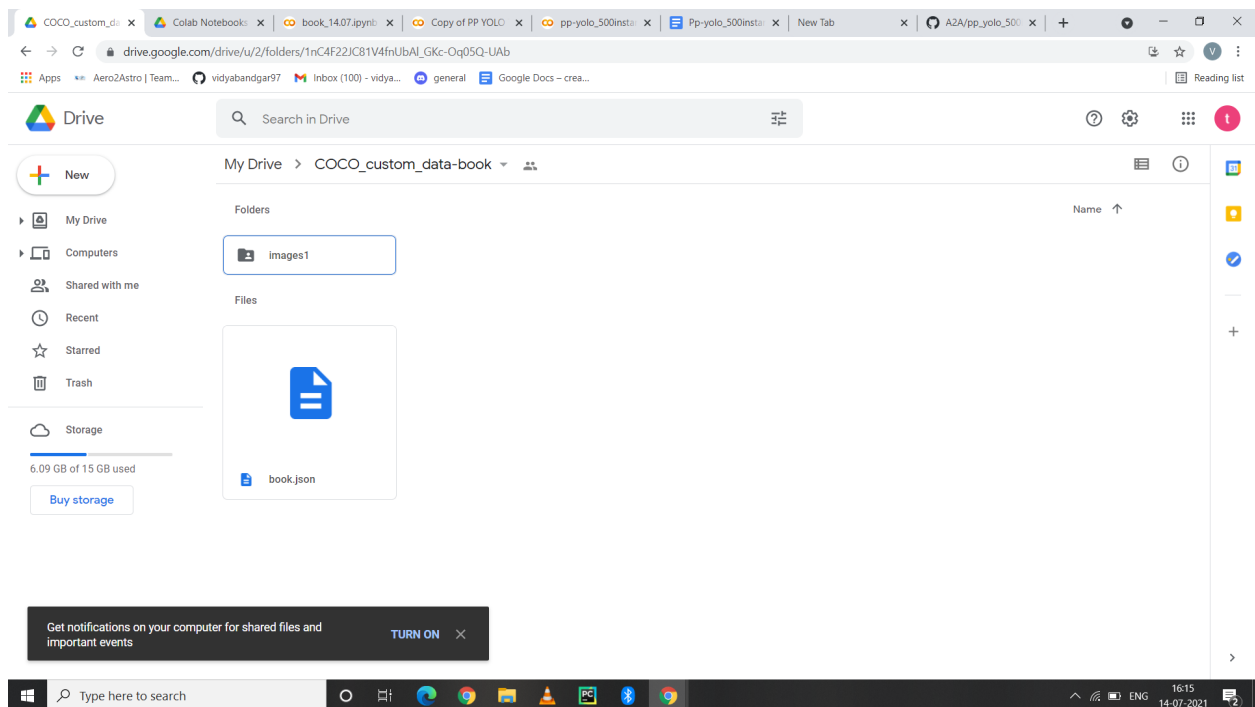
For 1000 instances i choose another class i.e “book”

Google drive link:

[https://drive.google.com/drive/folders/1nC4F22JC81V4fnUbAl\\_GKc-Oq05Q-UAb?usp=sharing](https://drive.google.com/drive/folders/1nC4F22JC81V4fnUbAl_GKc-Oq05Q-UAb?usp=sharing)

Git-hub notebook

[https://github.com/vidyabandgar97/A2A/blob/main/book\\_14\\_07.ipynb](https://github.com/vidyabandgar97/A2A/blob/main/book_14_07.ipynb)



## Task- 03:

Pp-yolo training for 1000 instance

lr= 0.000417

bs=8

Training is still going on

At 34th epoch loss is 58.72