

Steps to solve Face Detection problem using Detectron2

Steps to solve the Face Detection problem

1. Install Dependencies



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2. Loading and pre-processing the data



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3. Creating annotations as per Detectron2



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6. Evaluating model performance

Overview of the dataset

My Drive > Wider_dataset ▾

Name ↑



easy.txt



wider_face_split.zip



WIDER_train.zip



WIDER_val.zip



Thank You

DONE (t=0.05s).

Average Precision	(AP) @[IoU=0.50:0.95 area= all maxDets=100]	= 0.546
Average Precision	(AP) @[IoU=0.50 area= all maxDets=100]	= 0.904
Average Precision	(AP) @[IoU=0.75 area= all maxDets=100]	= 0.609
Average Precision	(AP) @[IoU=0.50:0.95 area= small maxDets=100]	= 0.235
Average Precision	(AP) @[IoU=0.50:0.95 area=medium maxDets=100]	= 0.359
Average Precision	(AP) @[IoU=0.50:0.95 area= large maxDets=100]	= 0.596
Average Recall	(AR) @[IoU=0.50:0.95 area= all maxDets= 1]	= 0.578
Average Recall	(AR) @[IoU=0.50:0.95 area= all maxDets= 10]	= 0.614
Average Recall	(AR) @[IoU=0.50:0.95 area= all maxDets=100]	= 0.618
Average Recall	(AR) @[IoU=0.50:0.95 area= small maxDets=100]	= 0.350
Average Recall	(AR) @[IoU=0.50:0.95 area=medium maxDets=100]	= 0.461
Average Recall	(AR) @[IoU=0.50:0.95 area= large maxDets=100]	= 0.661

[06/27 13:31:48 d2.evaluation.coco_evaluation]: Evaluation results for bbox:

AP	AP50	AP75	APs	APm	APl	
:-----:	:-----:	:-----:	:-----:	:-----:	:-----:	
54.566	90.375	60.896	23.498	35.871	59.598	

```
OrderedDict([('bbox',
  {'AP': 54.565724953154685,
   'AP50': 90.3748845417151,
   'AP75': 60.89609215287629,
   'APl': 59.597931908128686,
   'APm': 35.871304516155625,
   'APs': 23.498349834983497}]))
```

Average Precision	(AP) @[IoU=0.50:0.95 area= all maxDets=100]	= 0.579
Average Precision	(AP) @[IoU=0.50 area= all maxDets=100]	= 0.935
Average Precision	(AP) @[IoU=0.75 area= all maxDets=100]	= 0.677
Average Precision	(AP) @[IoU=0.50:0.95 area= small maxDets=100]	= 0.314
Average Precision	(AP) @[IoU=0.50:0.95 area=medium maxDets=100]	= 0.429
Average Precision	(AP) @[IoU=0.50:0.95 area= large maxDets=100]	= 0.618
Average Recall	(AR) @[IoU=0.50:0.95 area= all maxDets= 1]	= 0.626
Average Recall	(AR) @[IoU=0.50:0.95 area= all maxDets= 10]	= 0.638
Average Recall	(AR) @[IoU=0.50:0.95 area= all maxDets=100]	= 0.645
Average Recall	(AR) @[IoU=0.50:0.95 area= small maxDets=100]	= 0.450
Average Recall	(AR) @[IoU=0.50:0.95 area=medium maxDets=100]	= 0.532
Average Recall	(AR) @[IoU=0.50:0.95 area= large maxDets=100]	= 0.676

[06/29 16:06:00 d2.evaluation.coco_evaluation]: Evaluation results for bbox:

AP	AP50	AP75	APs	APm	APl
57.918	93.535	67.730	31.361	42.879	61.776

```
OrderedDict([('bbox',
  {'AP': 57.9176361150345,
   'AP50': 93.53503482131251,
   'AP75': 67.73043569223753,
   'APl': 61.77609829868324,
   'APm': 42.87898185017925,
   'APs': 31.36138613861386}])])
```