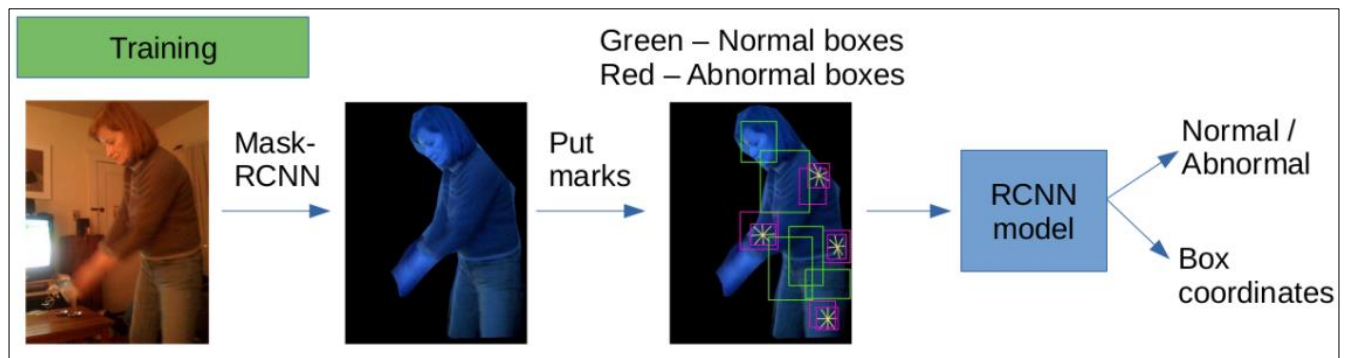
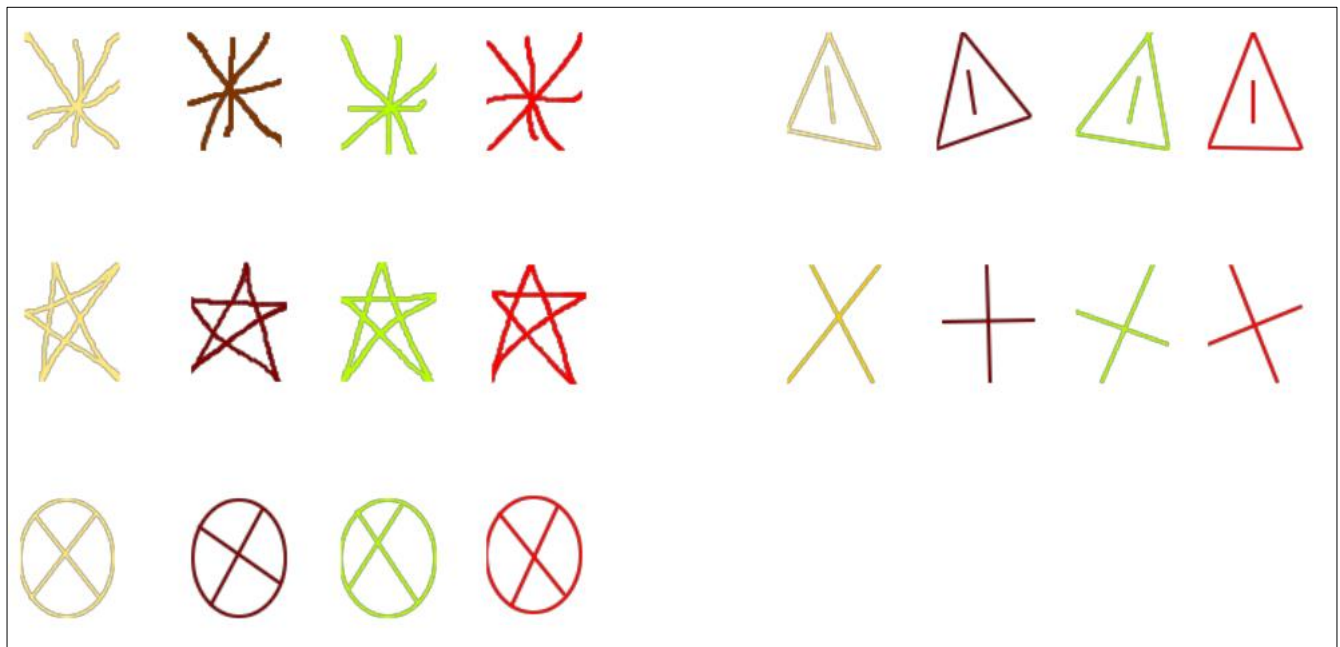


➤ Training Part -



➤ Marks put in the training images – (with different sizes)



➤ RCNN Model Used for Training -

- ◆ Faster RCNN (pretrained on COCO dataset)
- ◆ 1500 iterations
- ◆ Train – 2090, Validation – 114, Test – 897

➤ Training Result -

Average Precisions (AP) of Bounding Boxes,

AP : 84.21

AP50 : 95.03

AP75 : 94.00

Apm : 95.80

Aps : 81.18

cls_accuracy : 0.9941

false_negative : 0.0121

fg_cls_accuracy : 0.9941

loss_box_reg : 0.0703

loss_cls : 0.0142

loss_rpn_cls : 0.0003

loss_rpn_loc : 0.0044

total_loss : 0.0902

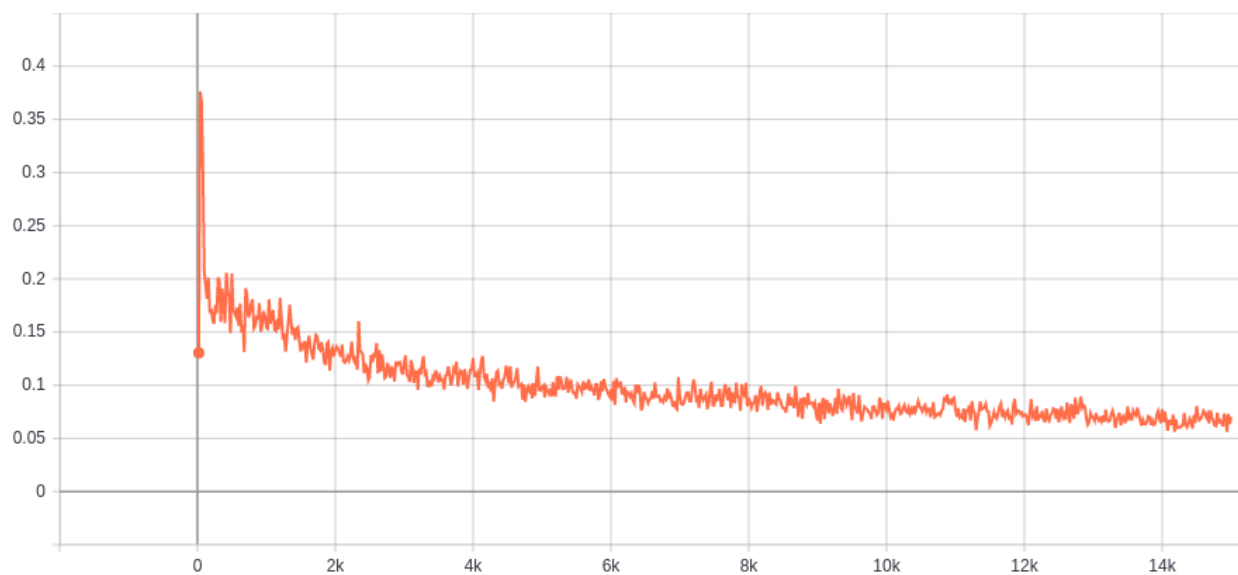


Figure.1: Bounding Box Regression Loss

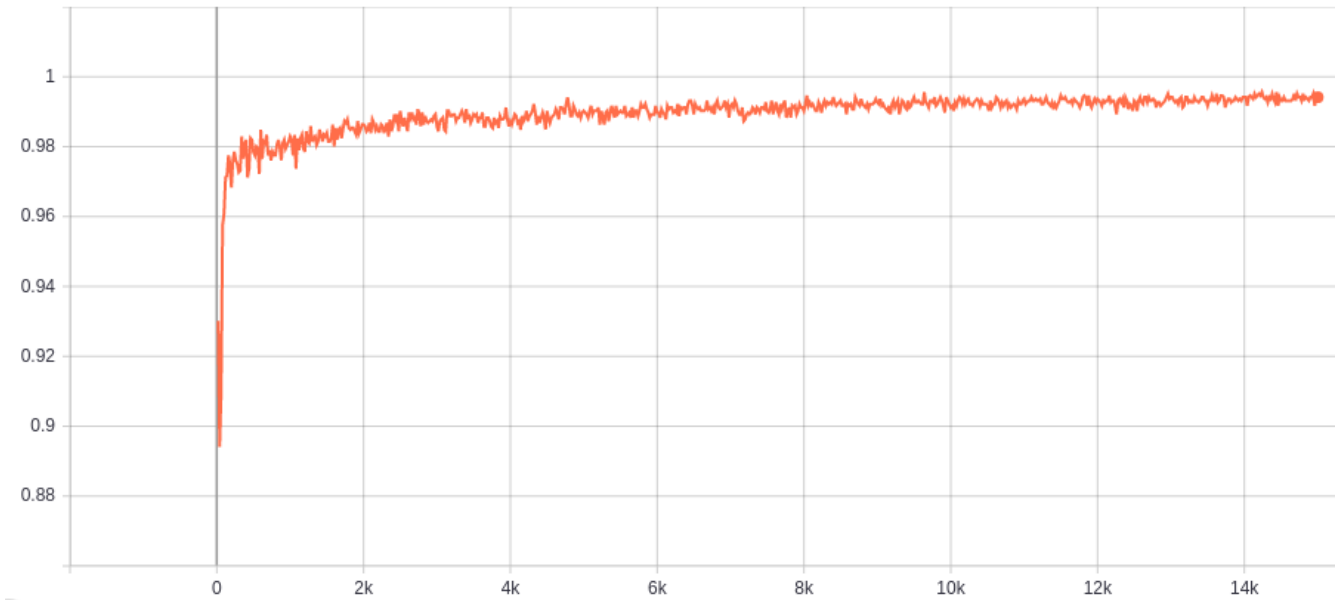


Figure.2: Class Accuracy

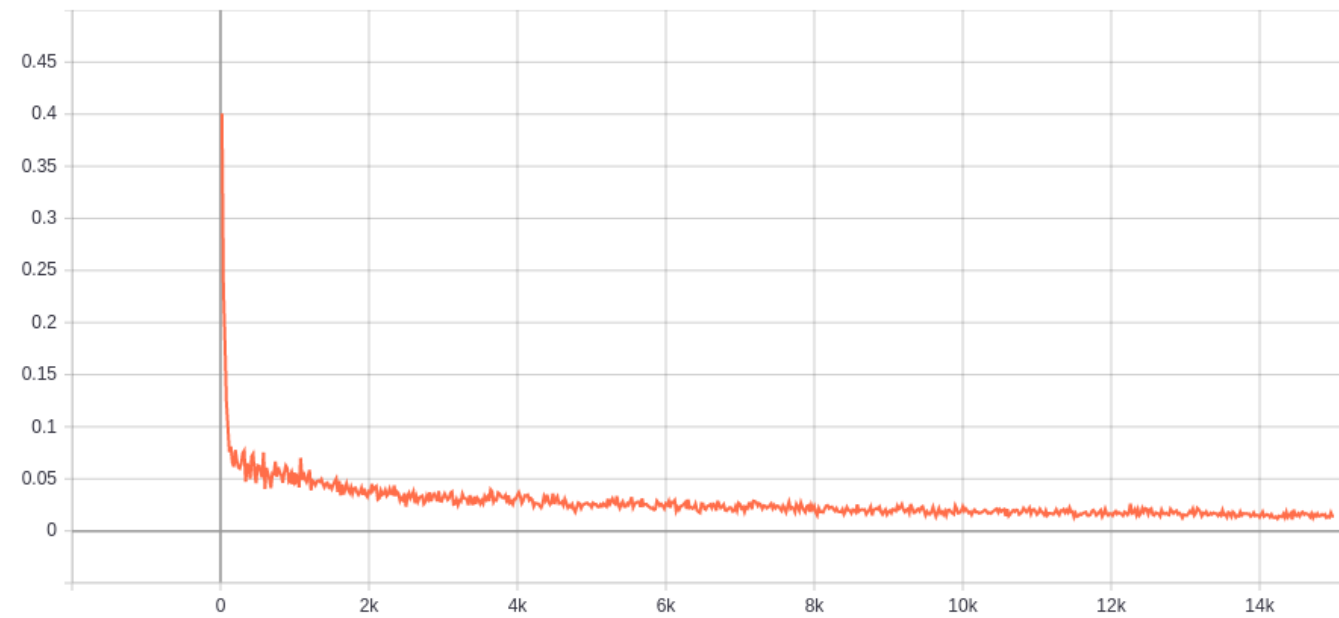


Figure.3: Class Loss

➤ Test Result -

Average Precisions (AP) of Bounding Boxes,

AP : 84.71

AP50 : 97.01

AP75 : 94.95

Apm : 93.821

Aps : 81.86

➤ Random Test images with prediction from trained model

