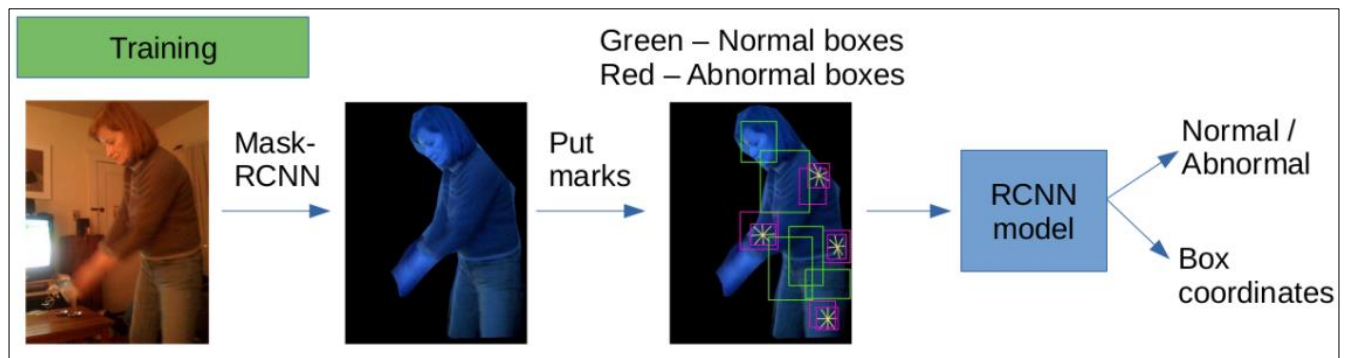
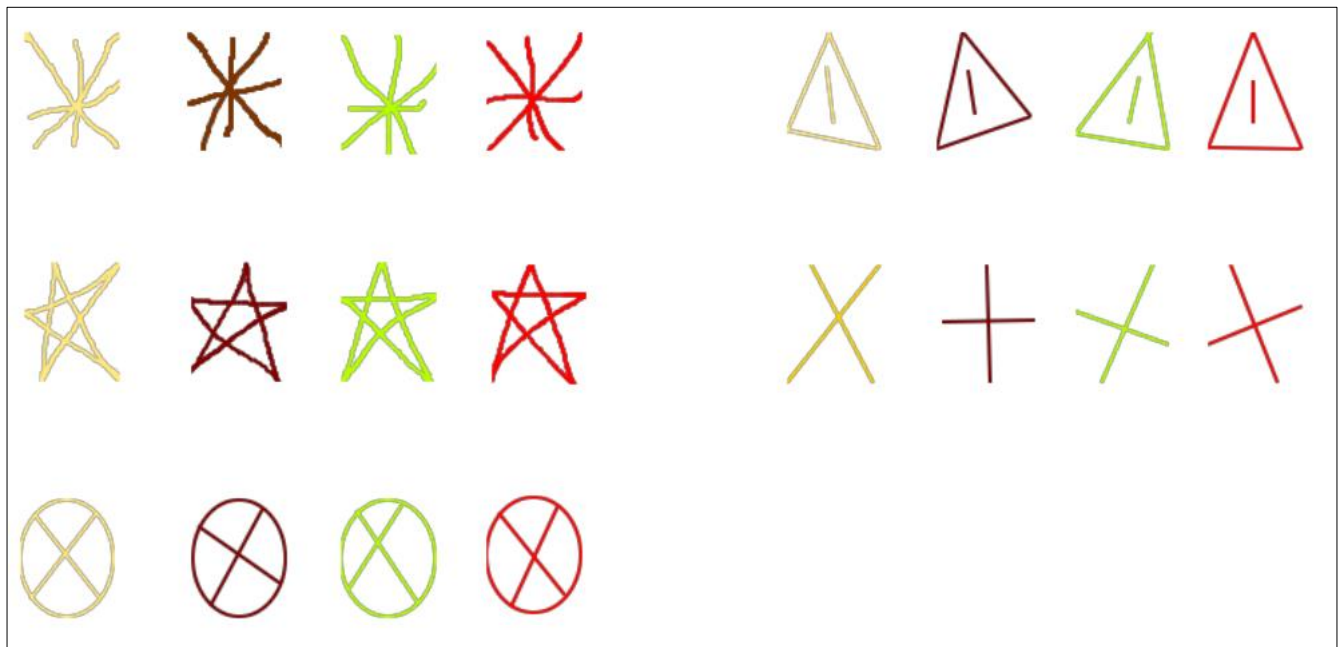


➤ Training Part -



➤ 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 : 75.84

AP50 : 95.53

AP75 : 90.46

Apm : 86.07

Aps : 73.05

cls_accuracy : 0.9848

false_negative : 0.0245

fg_cls_accuracy : 0.9755

loss_box_reg : 0.1430

loss_cls : 0.0421

loss_rpn_cls : 0.0018

loss_rpn_loc : 0.0059

total_loss : 0.1890

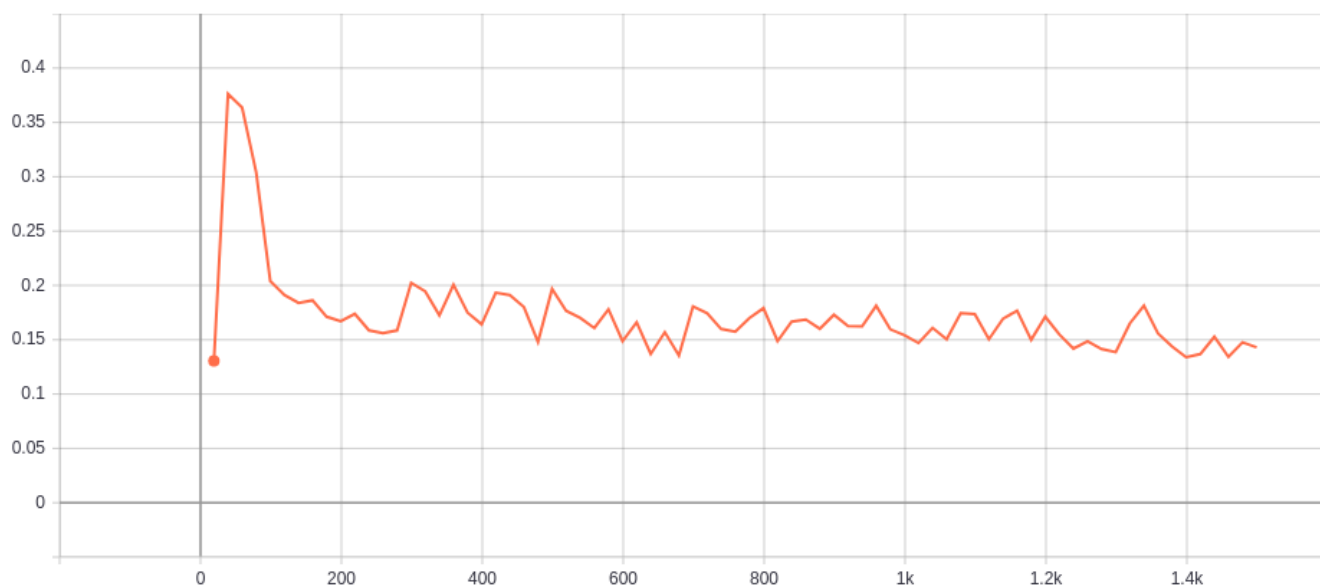


Figure.1: Bounding Box Regression Loss

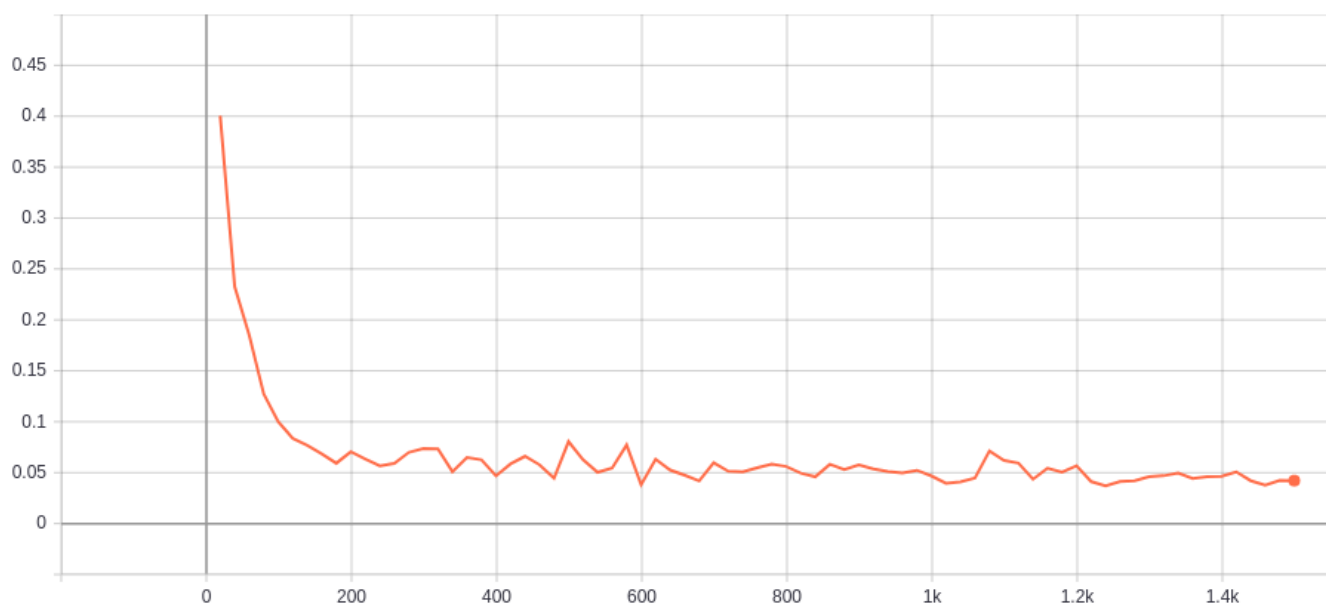


Figure.3: Class Loss

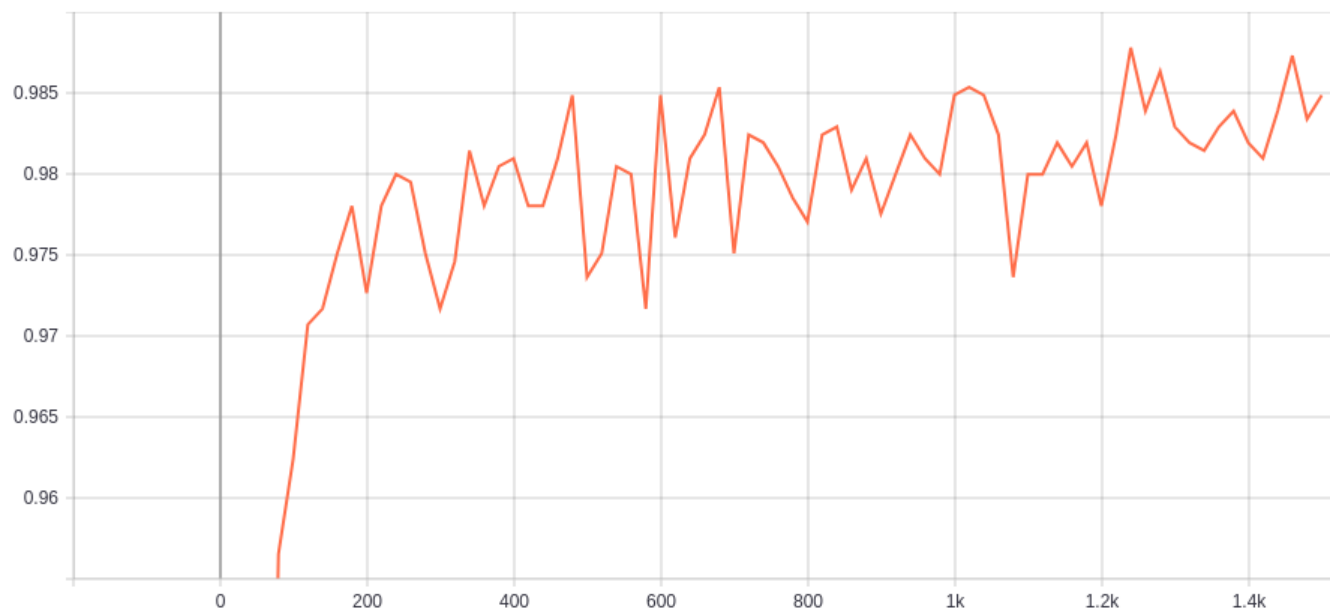


Figure.2: Class Accuracy

➤ Test Result -

Average Precisions (AP) of Bounding Boxes,

AP : 76.56

AP50 : 96.50

AP75 : 90.29

Apm : 86.21

Aps : 73.62

➤ Random Test images with prediction from trained model

