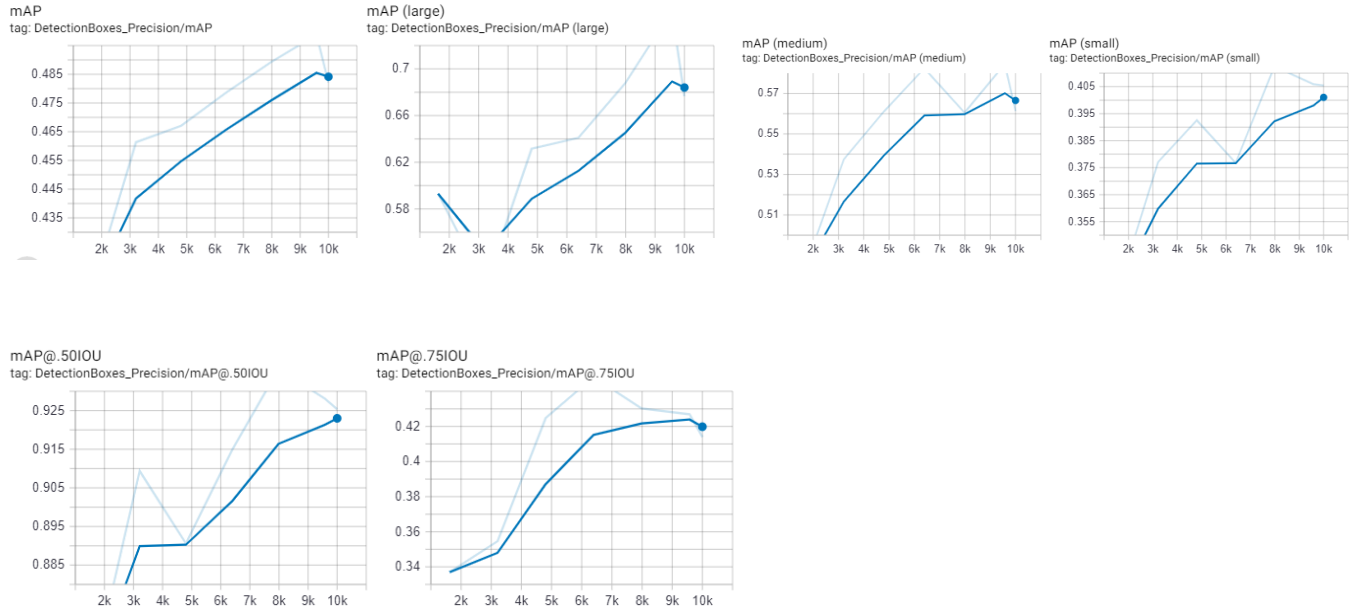


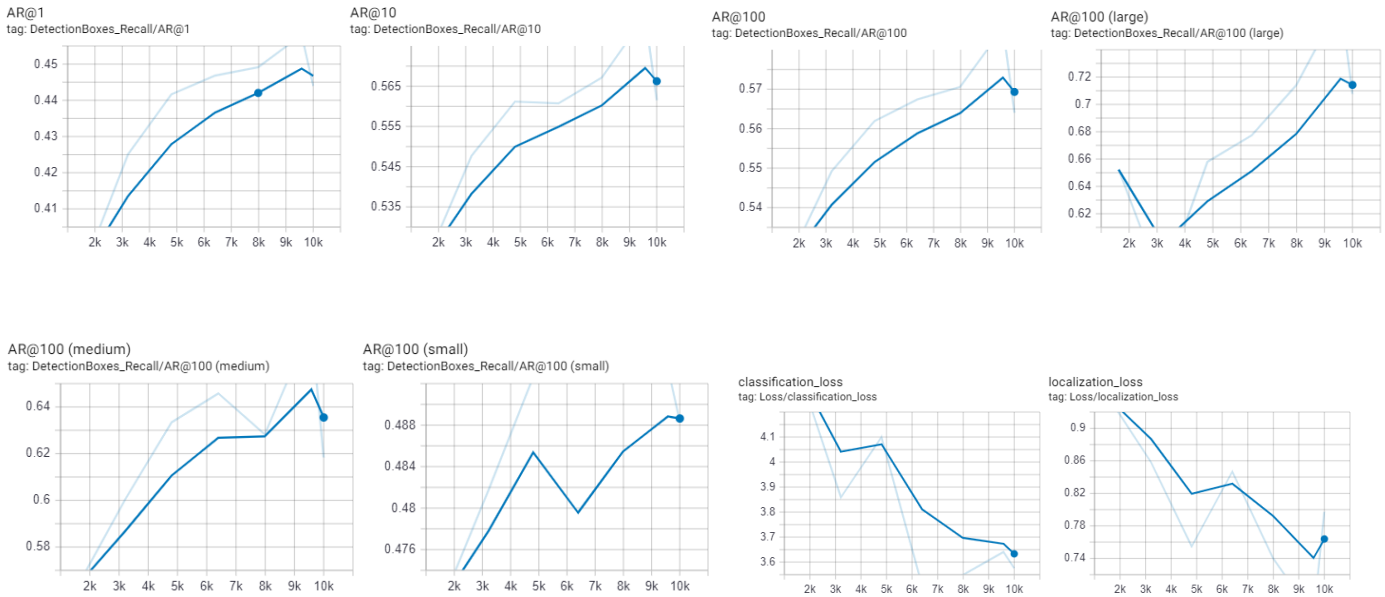
Object Detection Metrics:

Below are the scalar for the final detection model

Detection Boxes Precision

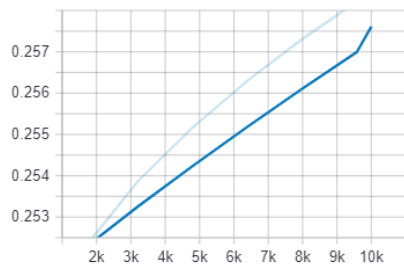


Detection boxes Recall

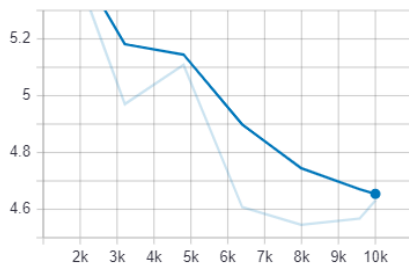


Loss Metrics

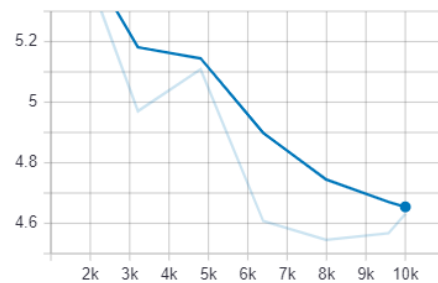
regularization_loss
tag: Loss/regularization_loss



total_loss
tag: Loss/total_loss



loss



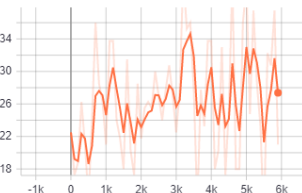
Comparison of Loss for training 1 and Final

Training 1

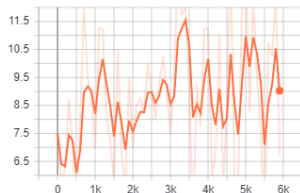
Training Final

Loss

HardExampleMiner/NumNegatives
tag: Loss/HardExampleMiner/NumNegatives

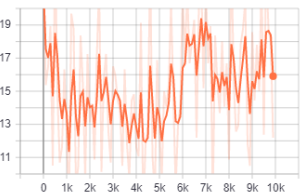


HardExampleMiner/NumPositives
tag: Loss/HardExampleMiner/NumPositives

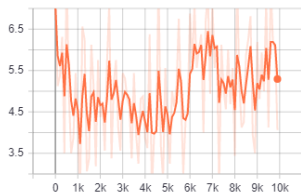


Loss

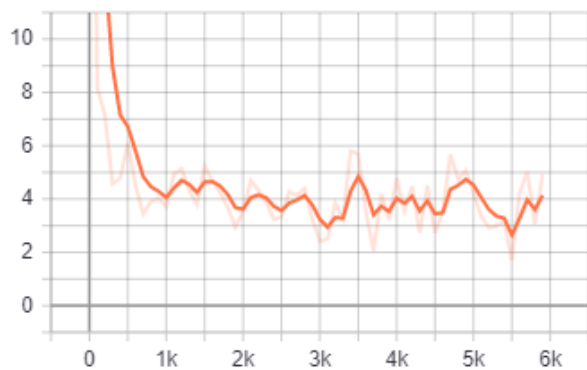
HardExampleMiner/NumNegatives
tag: Loss/HardExampleMiner/NumNegatives



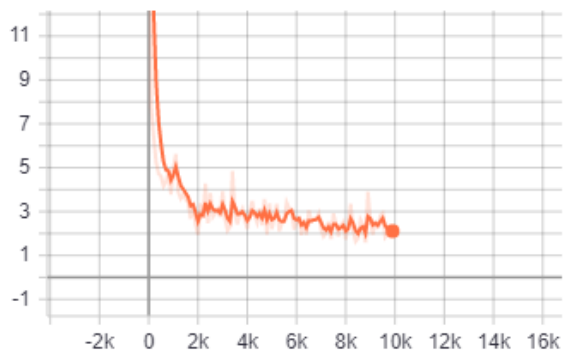
HardExampleMiner/NumPositives
tag: Loss/HardExampleMiner/NumPositives



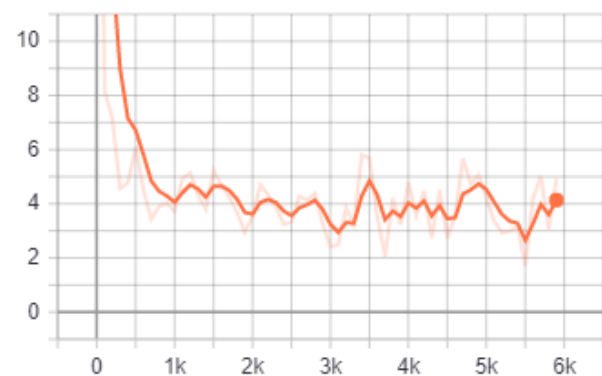
loss_1



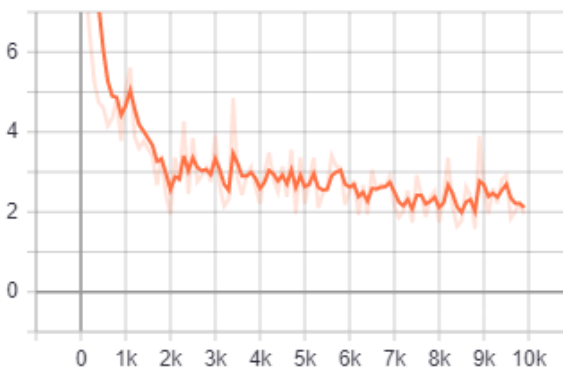
loss_1



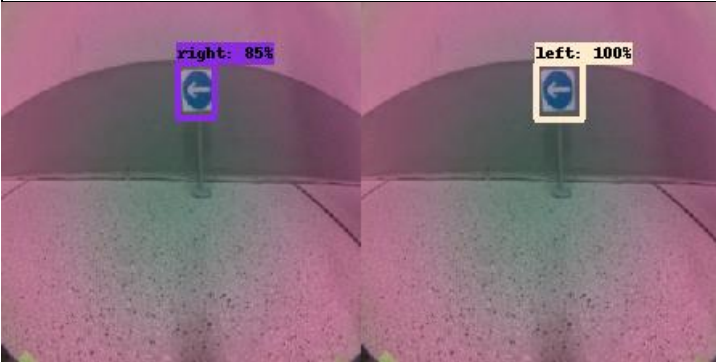

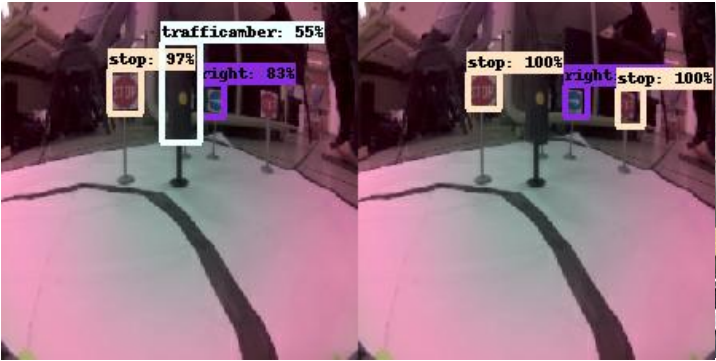

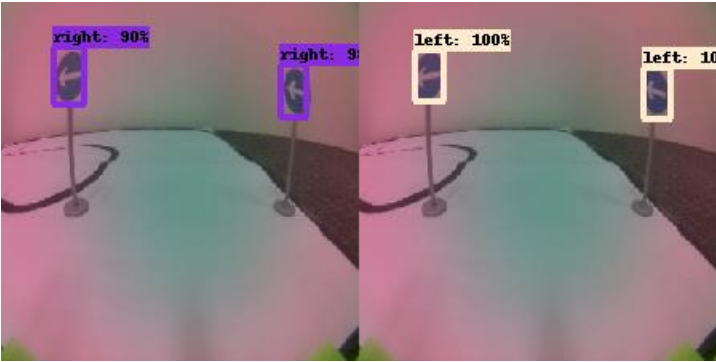

loss_2



loss_2



Detection Images

Training 1				Training Final			
							
							
							

Mean Average Precision Recall Values for Final Execution			
Model	SSD MobileNet		
	Metrics	Training 1	Training Final
Detection boxes/Mean avg. precision		24.47	25.68
Average Precision(L)		38.99	67.67
Average Precision(M)		28.68	56.14
Average Precision(S)		19.84	40.54
AP - 50IOU		52.18	25.68
AP - 75IOU		17.12	41.4
Average Recall - 1		30.66	44.4
Average Recall - 10		40.06	56.16
Average Recall - 100		40.72	56.41
Average Recall(L)		64.93	70.77
Average Recall(M)		44.03	61.84
Average Recall(S)		30.61	48.83