

6DOF Homework

Problem 2	Experiment	Iteration	cls_accuracy	cls_R_accuracy	cls_t_accuracy	cls_R_t_accuracy	overall
	Basic Model	40000	0.540578	0.066025	0.298487	0.046768	0.951857
	Cropped Images as Input	46000	0.865199	0.496561	0.755158	0.442916	2.559835

I have also tried to use 6D rotation representation and Loss to make prediction on the rotation matrix, but the performance is only

I have also tried to used multiple heads, each of which correponds to a different object class, but the performance is not good.

Lastly, I have tried to ensembled all the previous modifications, but the performance is not good.

The plot validation metrics of my best model is shown below:

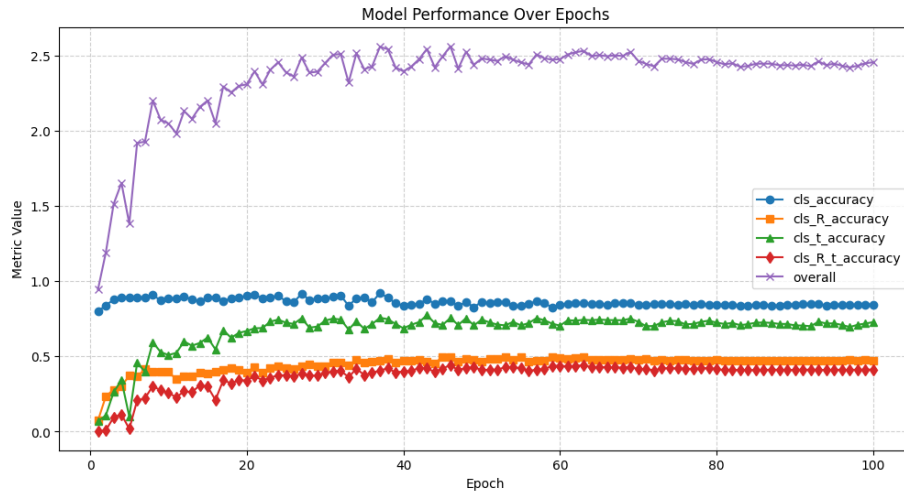


Figure 1: Effect of Noise