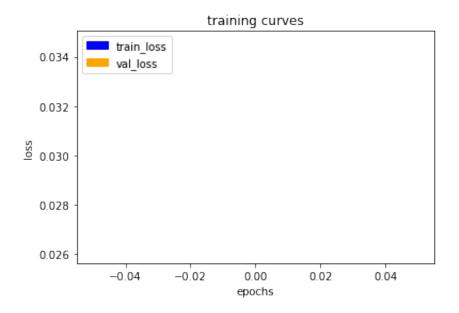
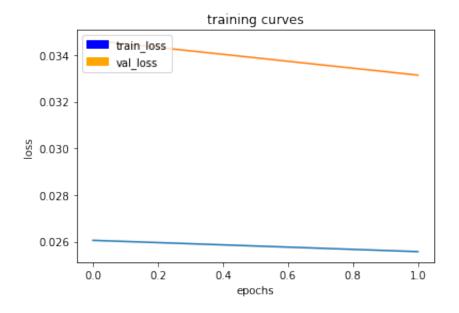
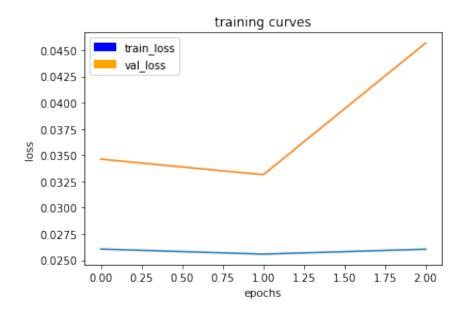
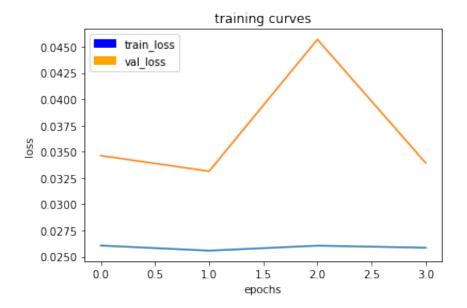
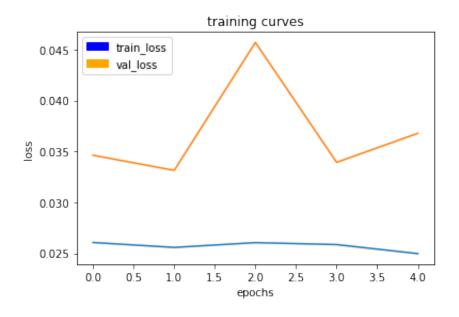
On AWS instance

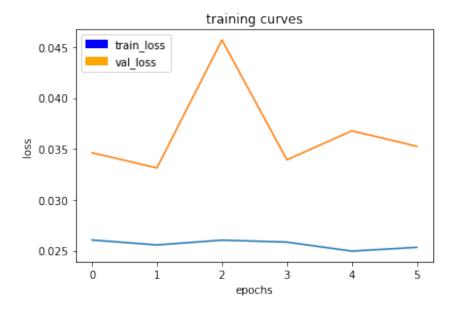


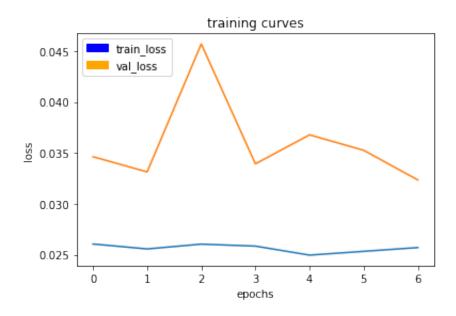






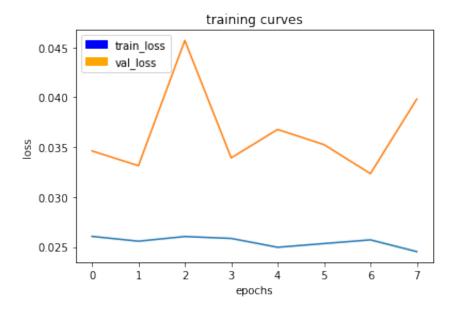


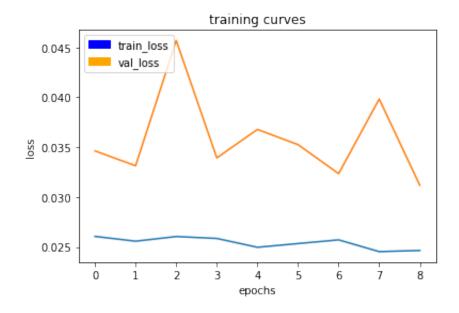


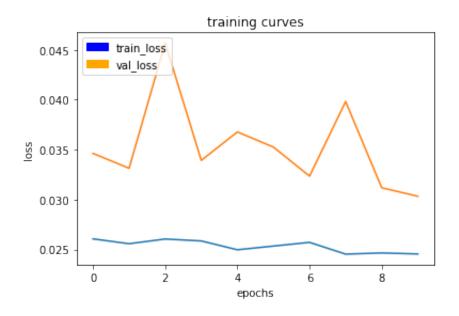


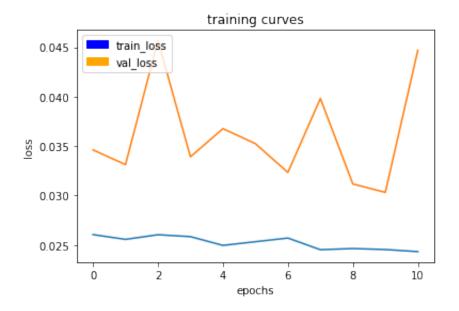
65/65 [=============] - 187s - loss: 0.0257 - val_loss: 0.0323

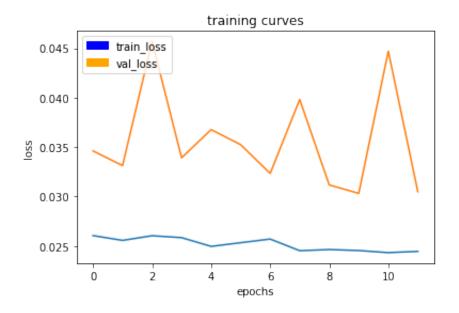
Epoch 8/100

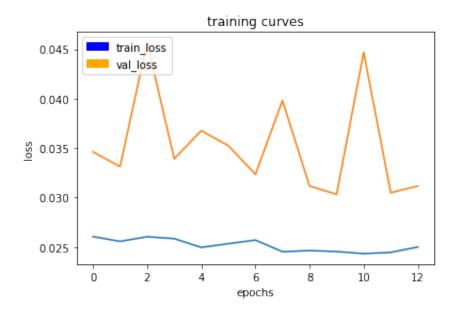


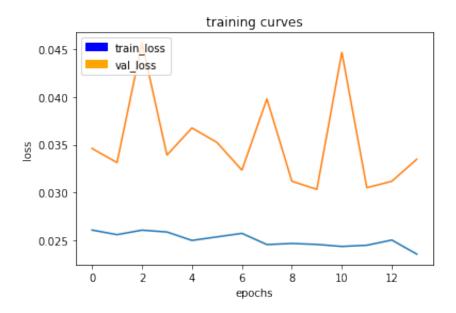


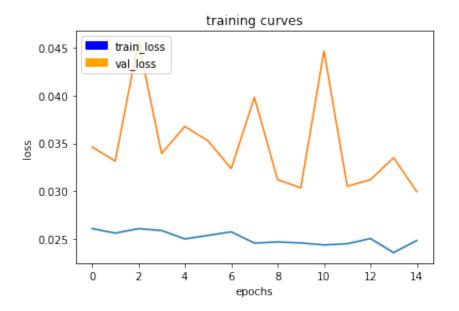


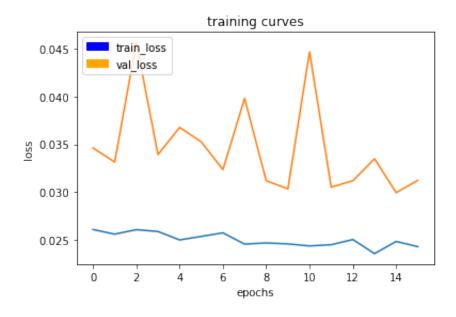


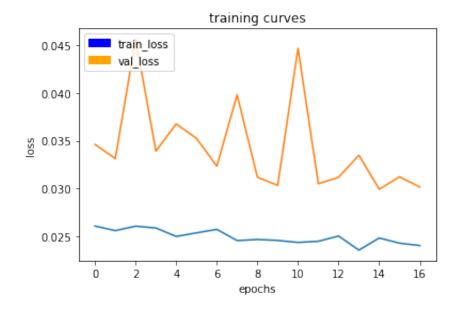


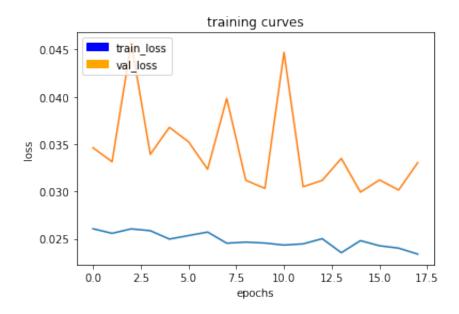




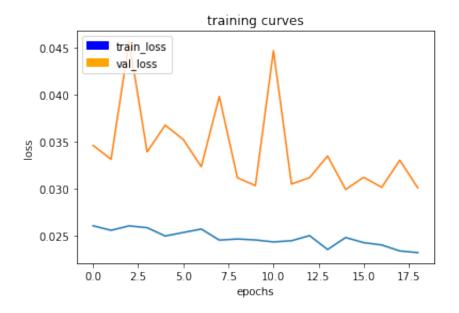


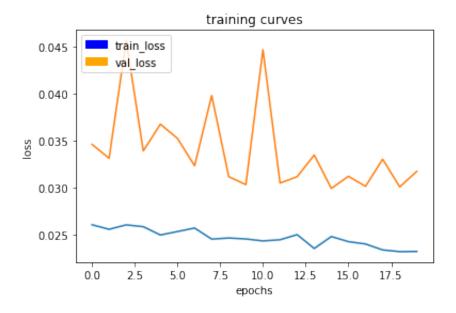


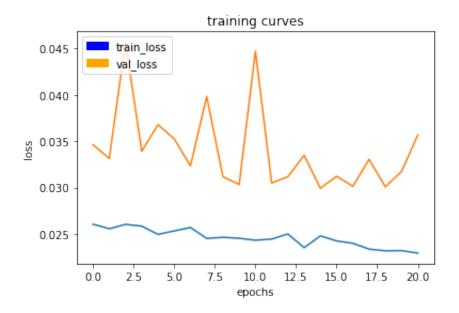


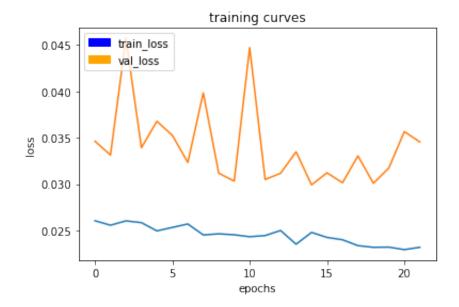


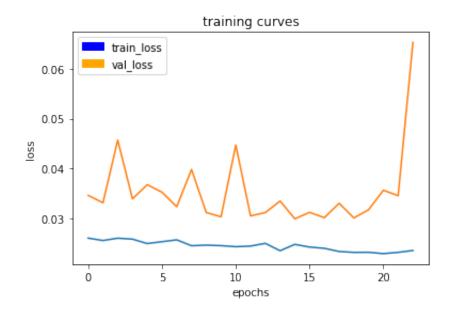
65/65 [=============] - 187s - loss: 0.0234 - val_loss: 0.0330

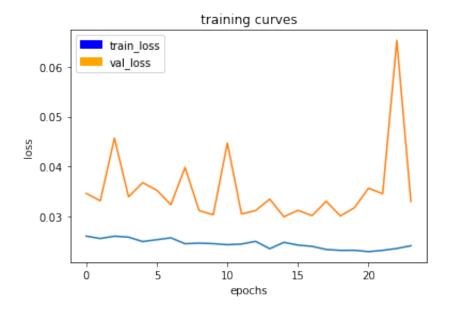


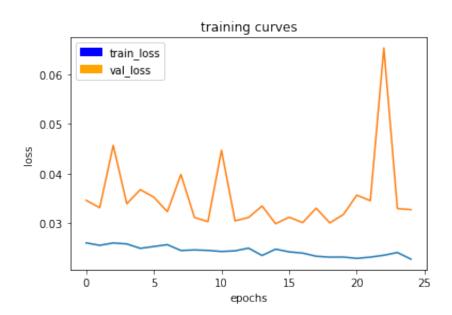


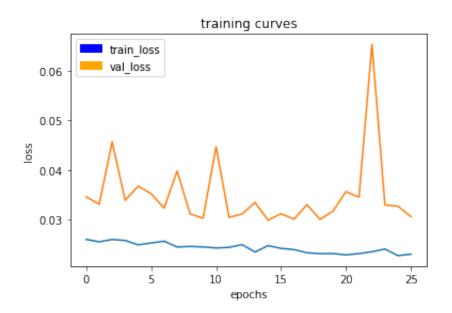




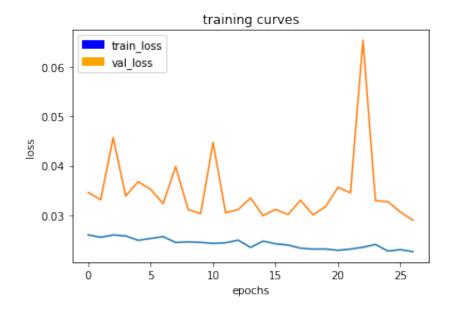


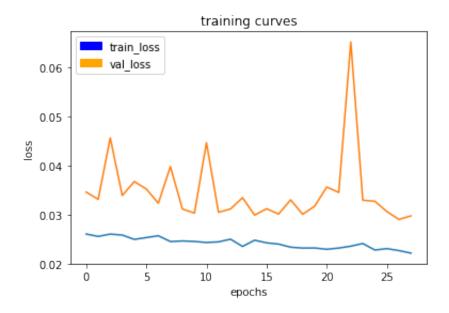


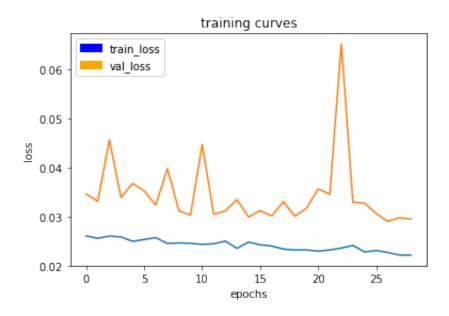




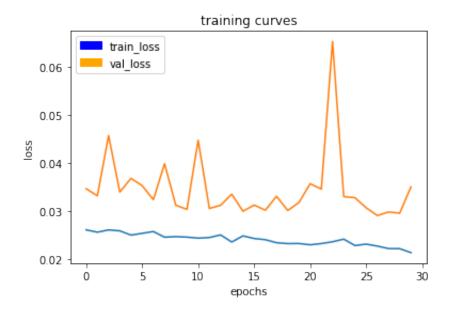


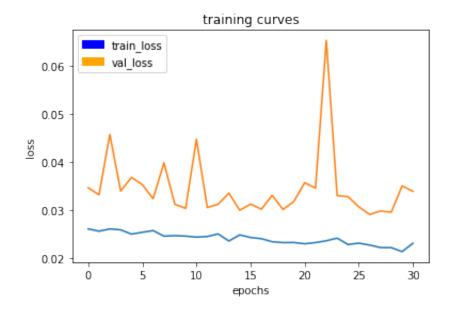


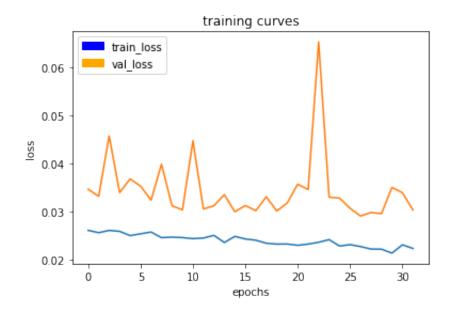


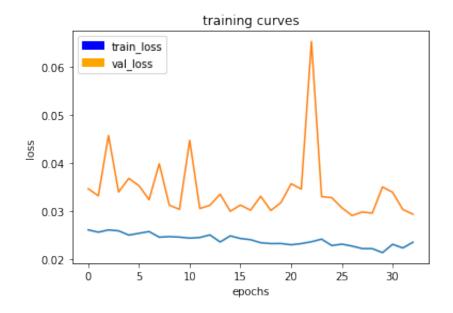


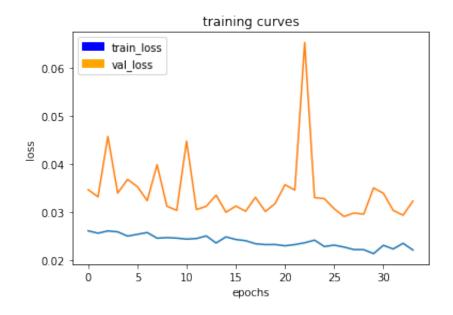
65/65 [==============] - 187s - loss: 0.0221 - val_loss: 0.0295

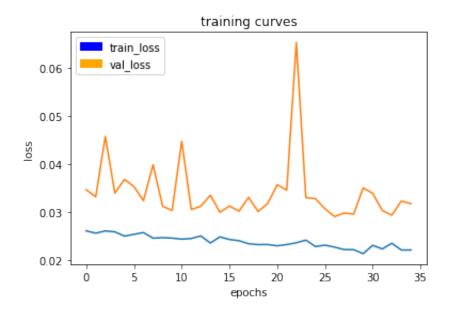


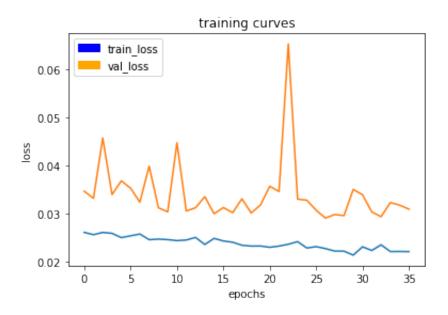


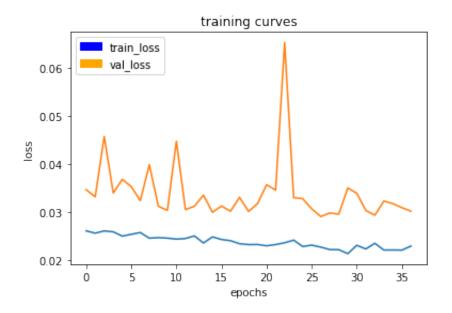


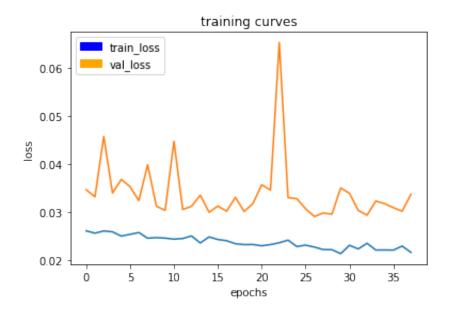


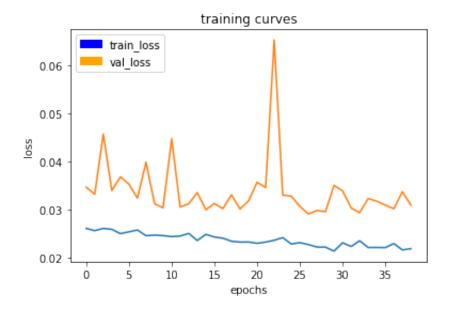


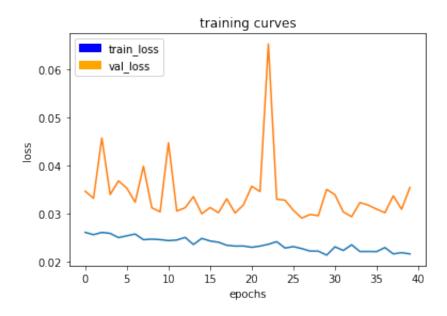




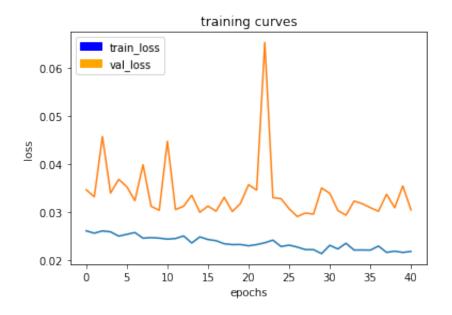


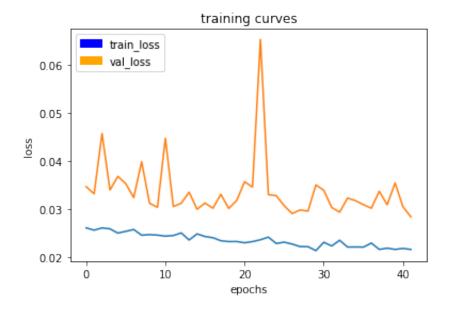


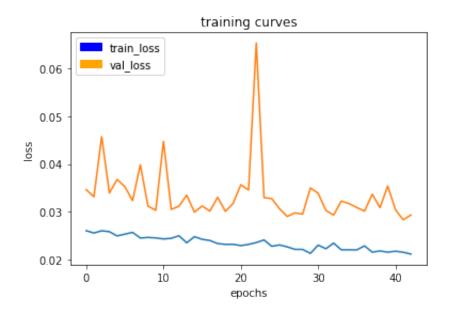


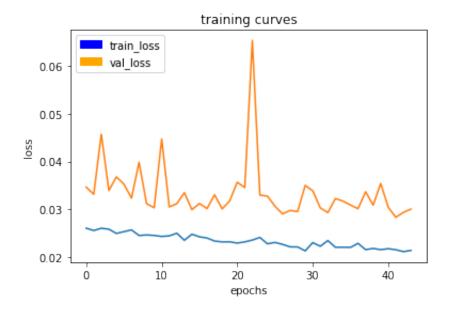


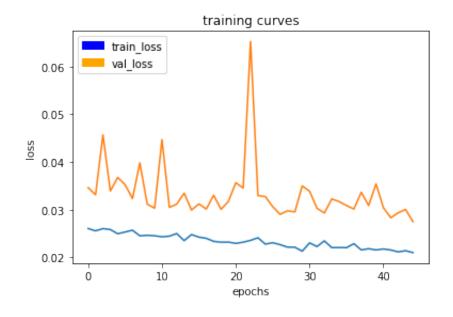
65/65 [==============] - 186s - loss: 0.0216 - val_loss: 0.0354

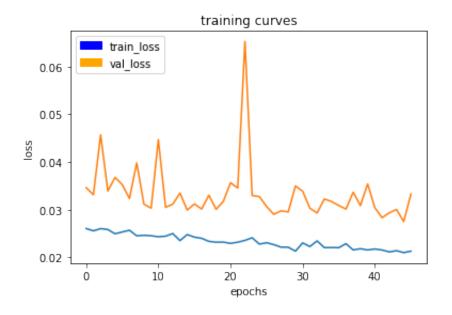


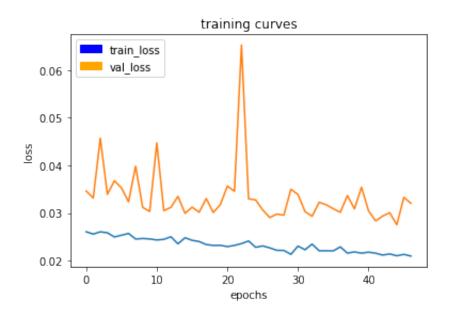


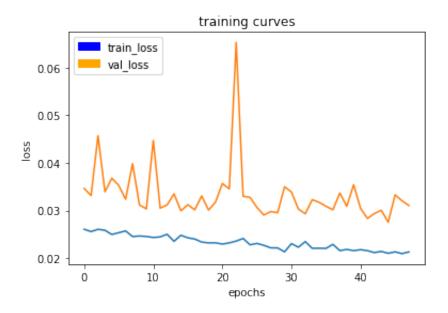


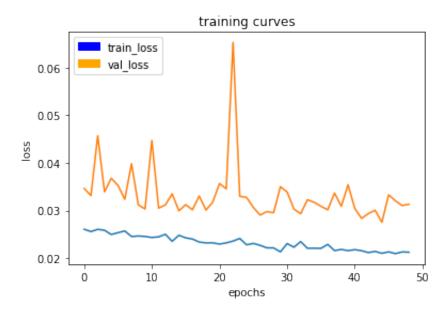


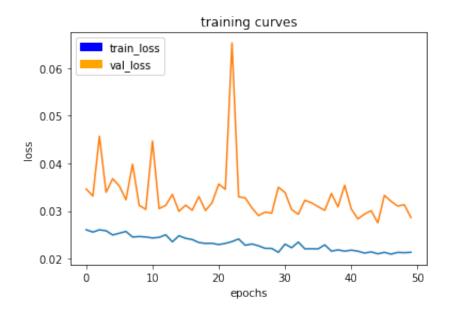


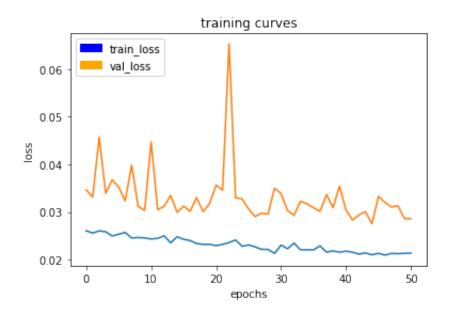




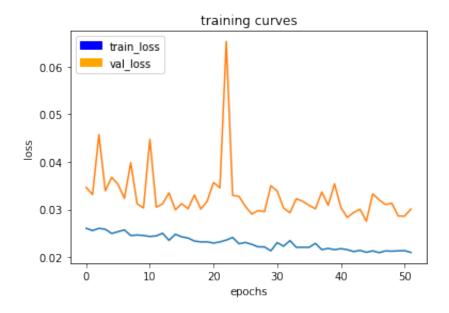


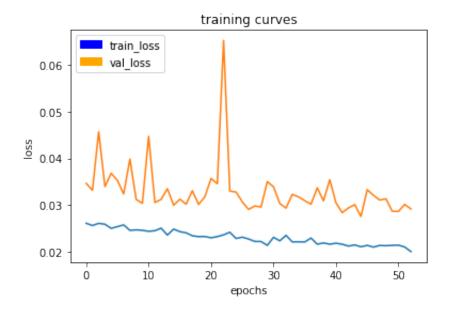


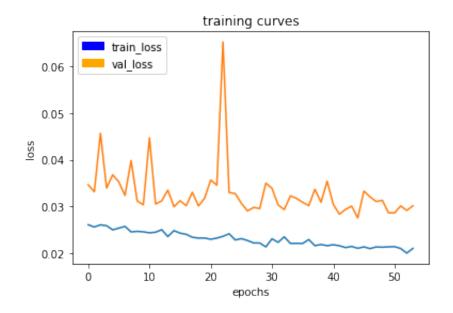


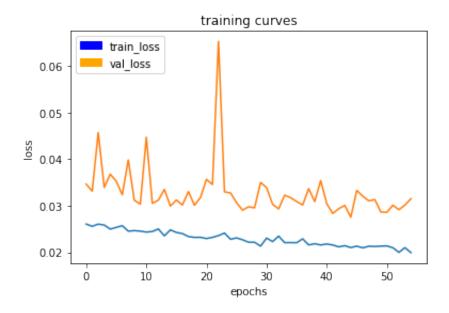


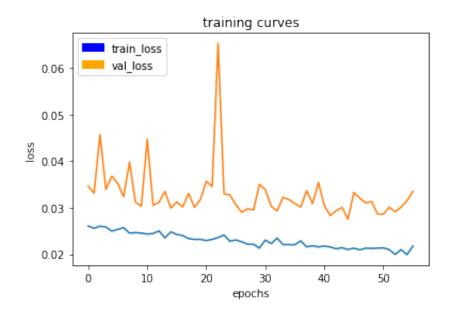
65/65 [==============] - 187s - loss: 0.0213 - val_loss: 0.0286

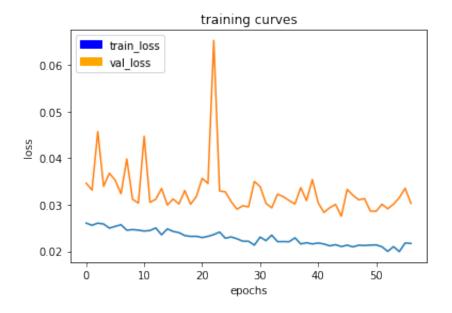


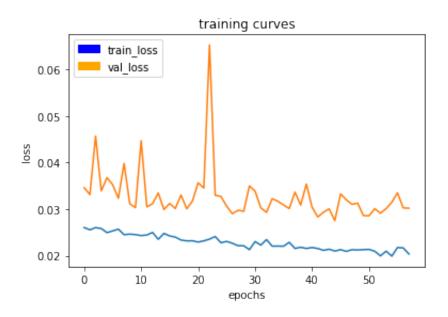


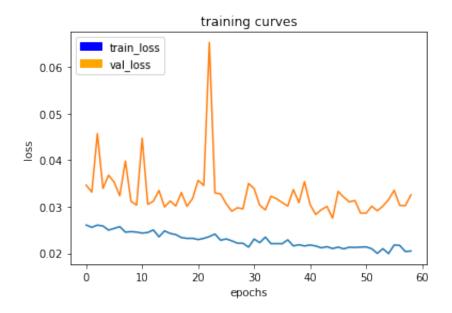


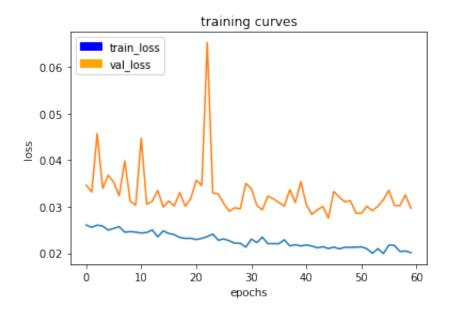


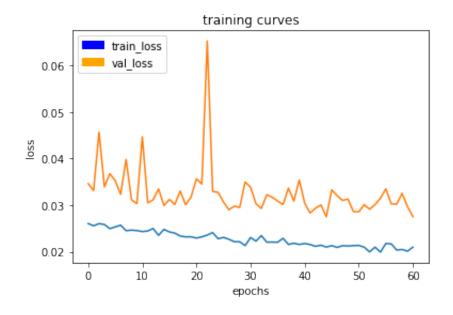


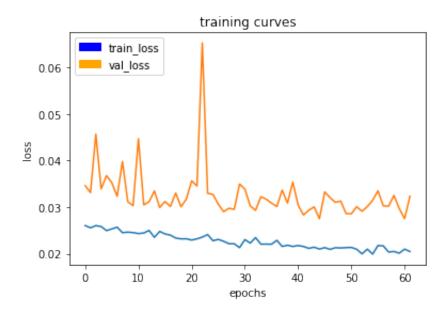


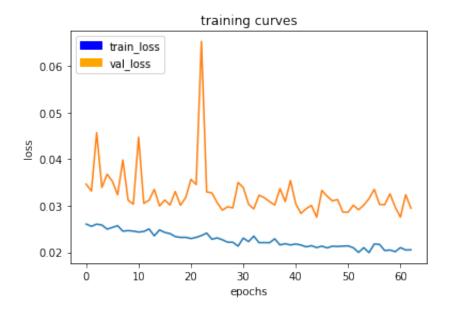


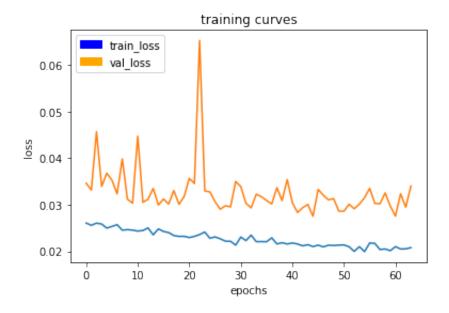


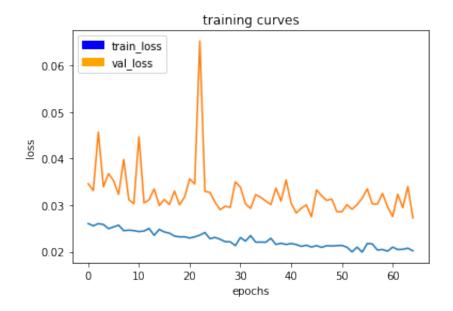


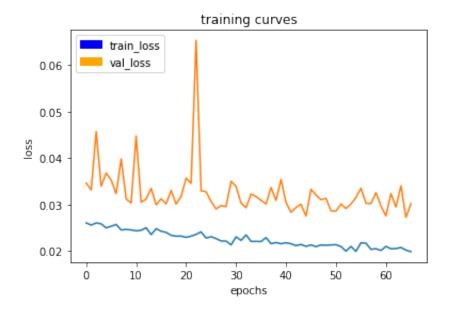


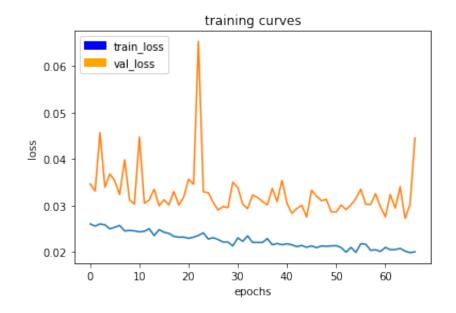


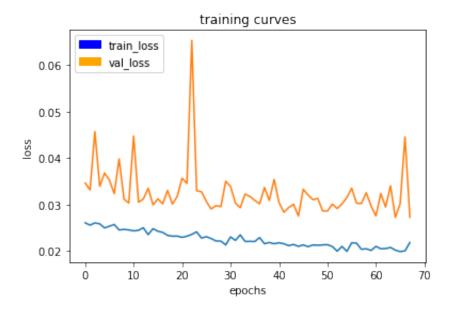


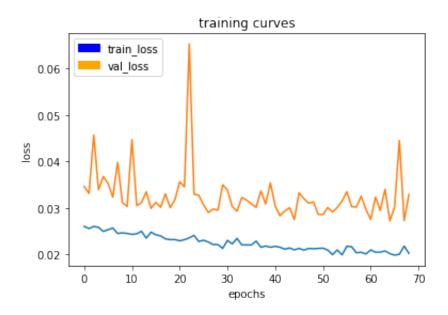


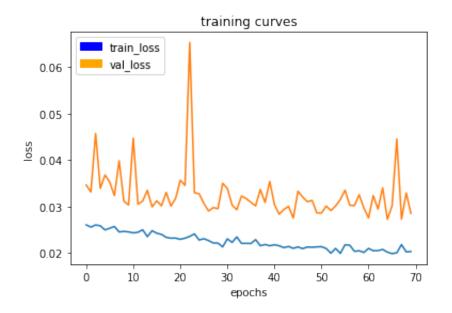


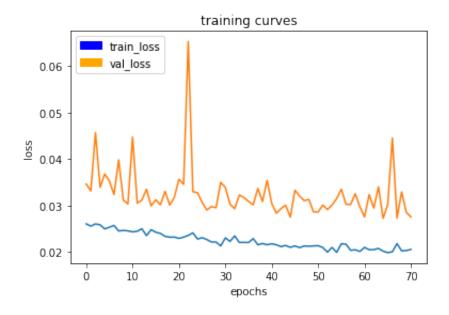


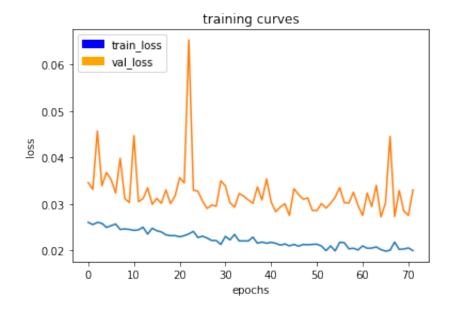


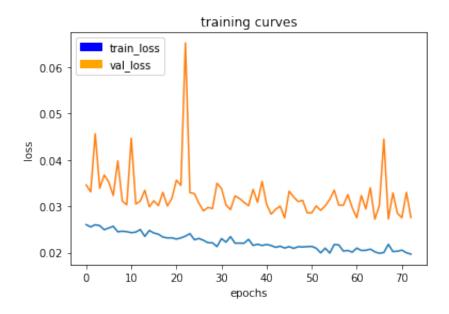




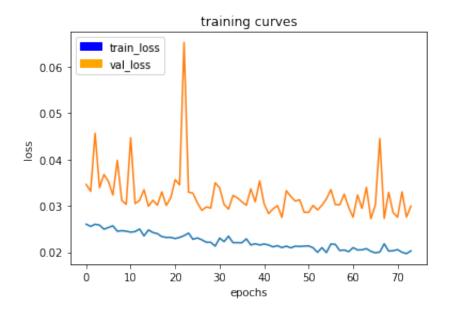


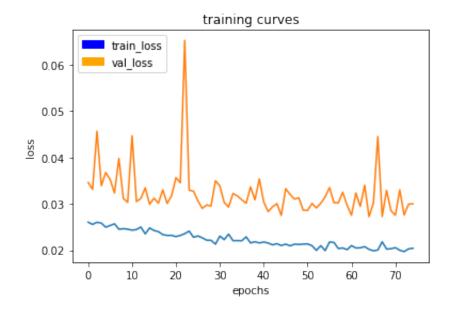


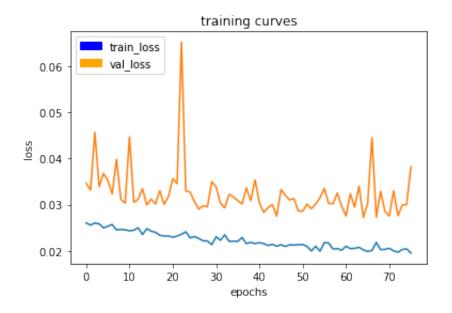


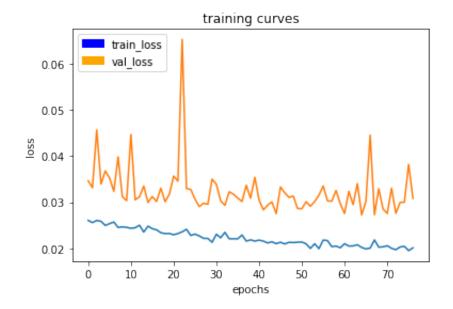


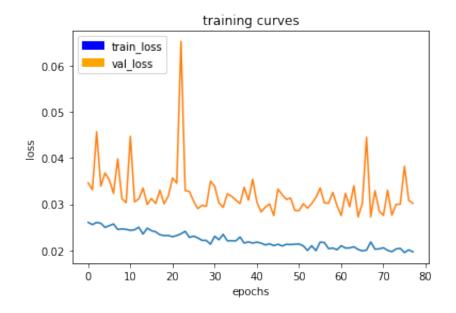
65/65 [==============] - 187s - loss: 0.0197 - val_loss: 0.0276

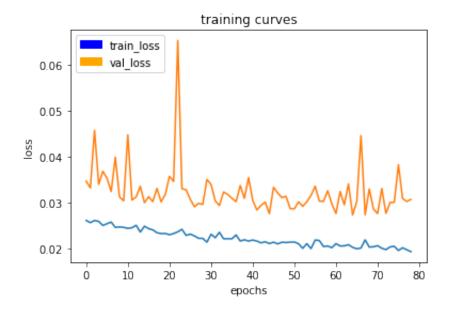


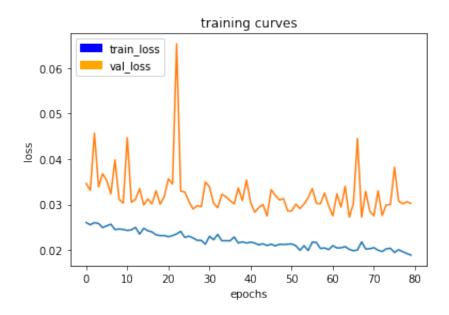


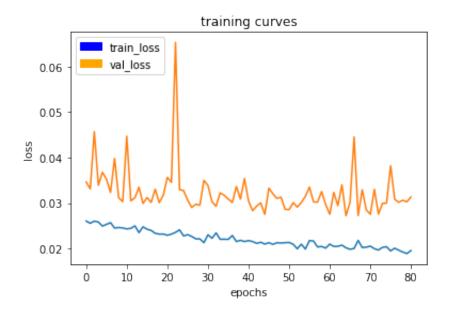


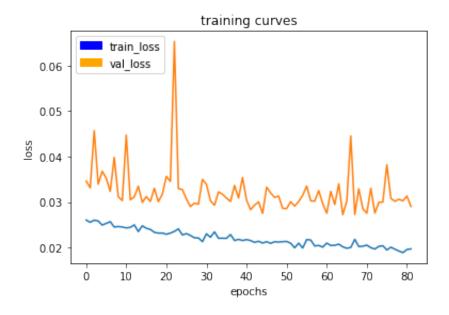




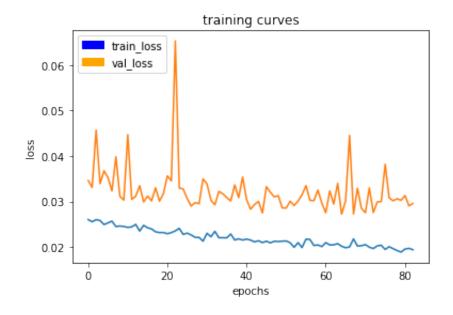


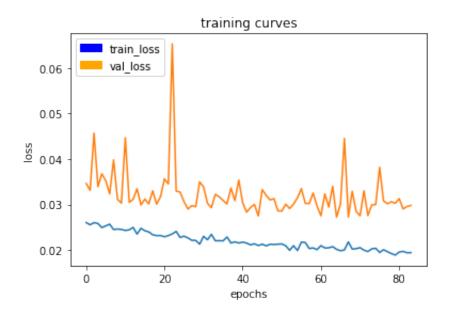




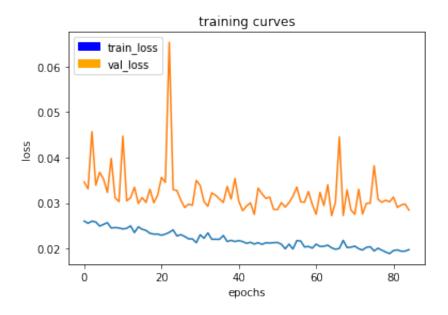


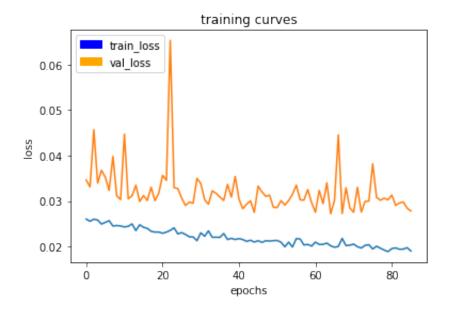
65/65 [=============] - 187s - loss: 0.0197 - val_loss: 0.0291 Epoch 83/100

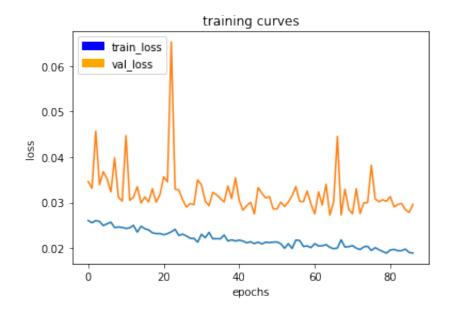


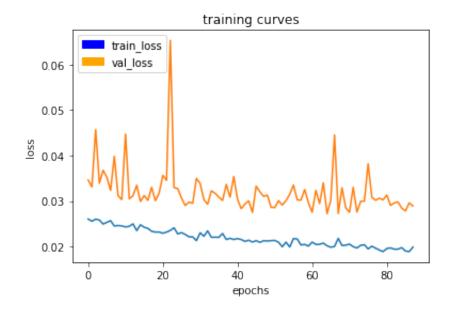


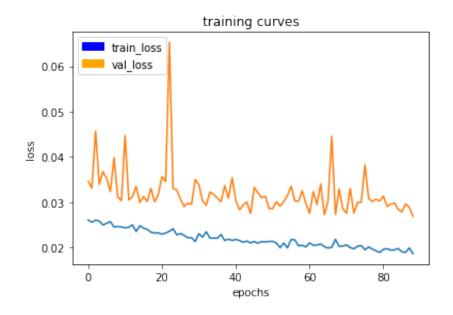
65/65 [==============] - 187s - loss: 0.0195 - val_loss: 0.0298

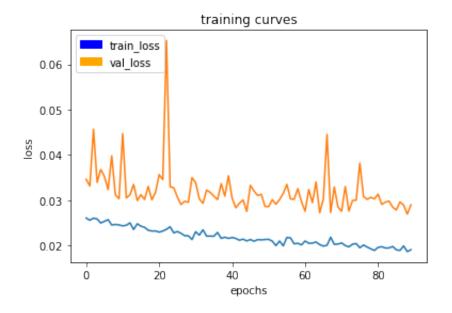


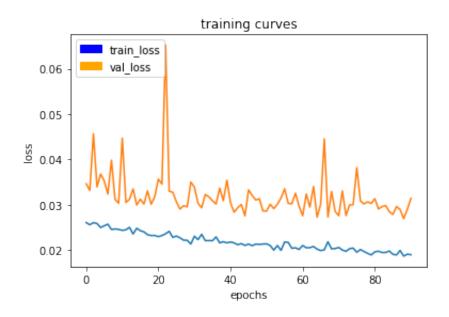


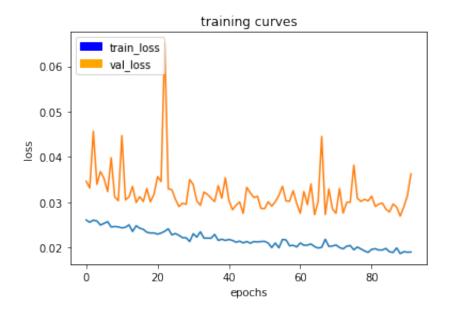


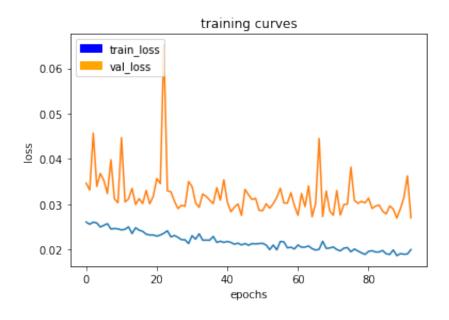


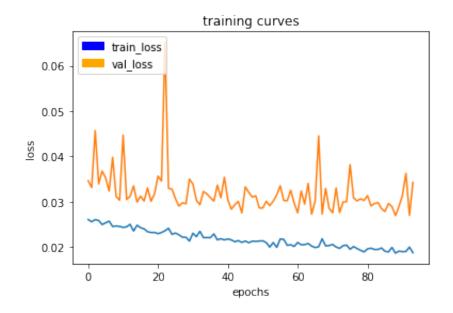


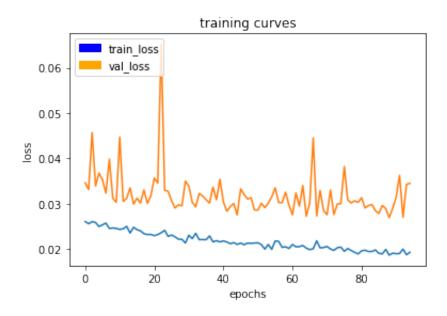




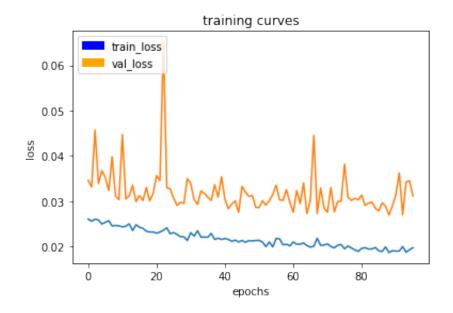


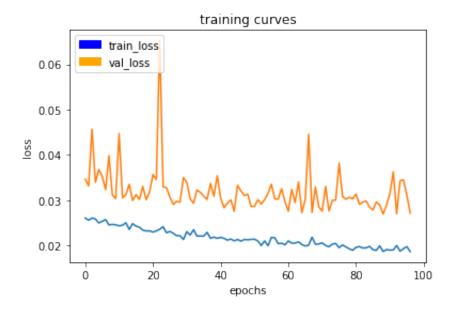


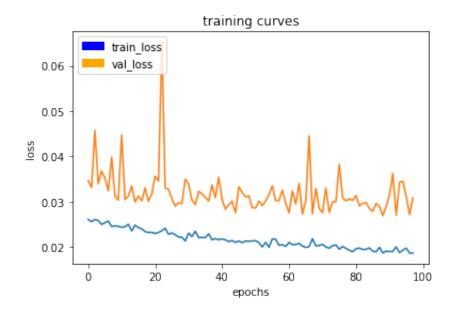


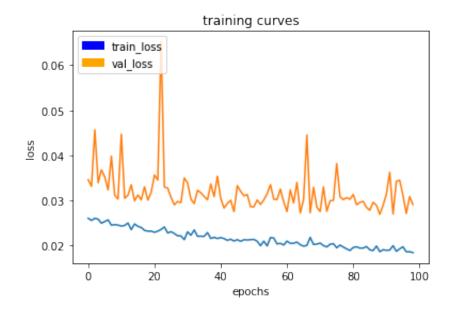


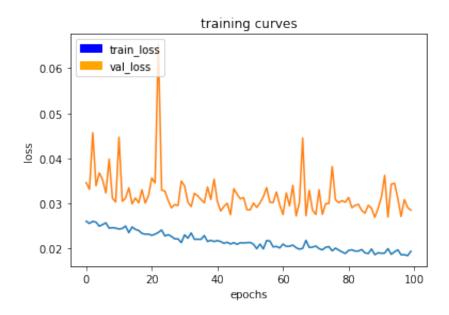
65/65 [=============] - 186s - loss: 0.0193 - val_loss: 0.0345







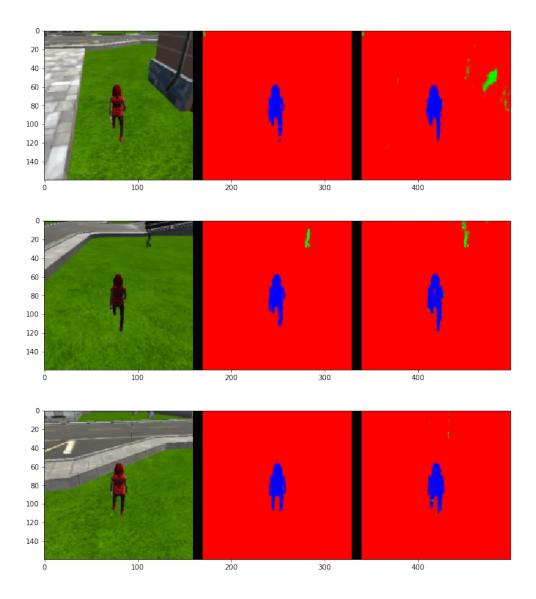




Scores for while the quad is following behind the target:

number of validation samples intersection over the union evaulated on 542 average intersection over union for background is 0.9943922632238236 average intersection over union for other people is 0.3493459834420628 average intersection over union for the hero is 0.887736713581679 number true positives: 539, number false positives: 0, number false negatives: 0

Images while following the target:



Scores for images while the quad is on patrol and the target is not visible:

number of validation samples intersection over the union evaulated on 270

average intersection over union for background is 0.9835427221856471

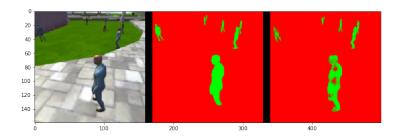
average intersection over union for other people is

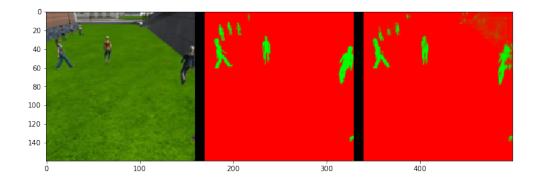
0.6669176867400937

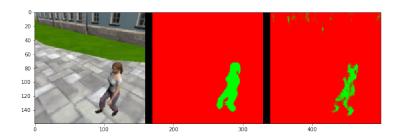
average intersection over union for the hero is 0.0

number true positives: 0, number false positives: 100, number false negatives: 0

Images while at patrol without target:







This score measures how well the neural network can detect the target from far away:

number of validation samples intersection over the union evaulated on 322

average intersection over union for background is 0.9953639647567724

average intersection over union for other people is 0.4304604416323082

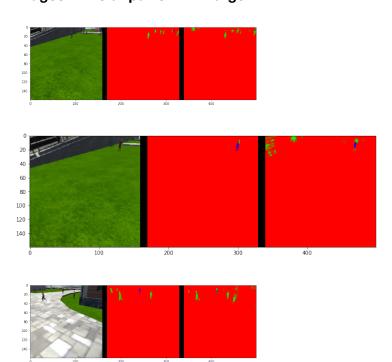
average intersection over union for the hero is

0.29743250563079177

number true positives: 175, number false positives:

2, number false negatives: 126

Images while at patrol with target:



Sum all the true positives, etc from the three datasets to get a weight for the score:

0.7579617834394905

Final IoU:

0.592584609606

Final score:

0.449156487536