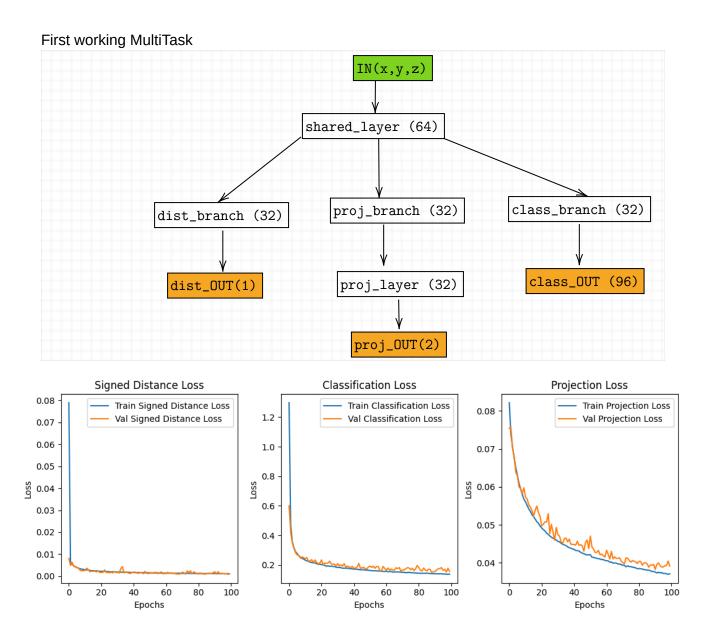
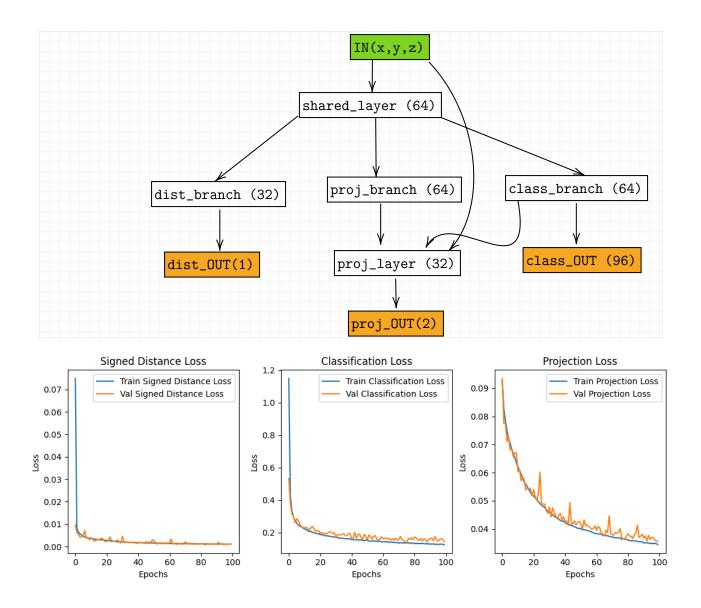
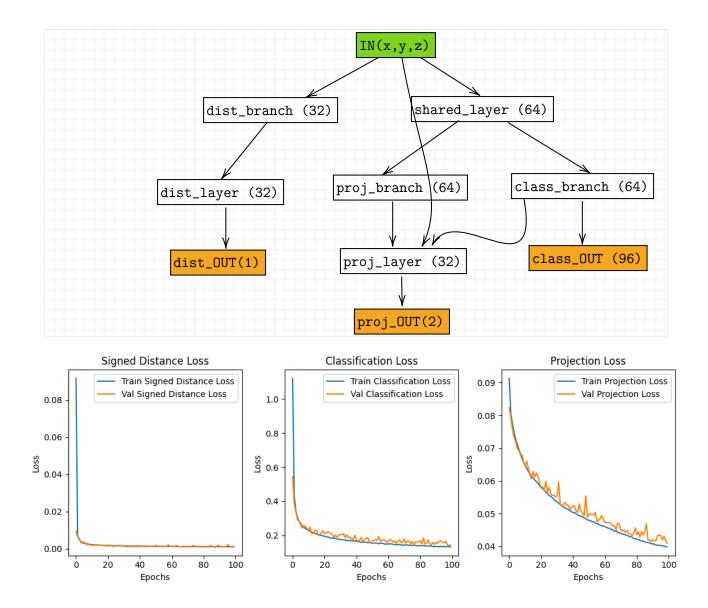
Here we try Multitask because it improves generalization, so potentially we could output just **one** pair $(\xi_1,\xi_2) \rightarrow \text{projoutput.size} = (2,)$



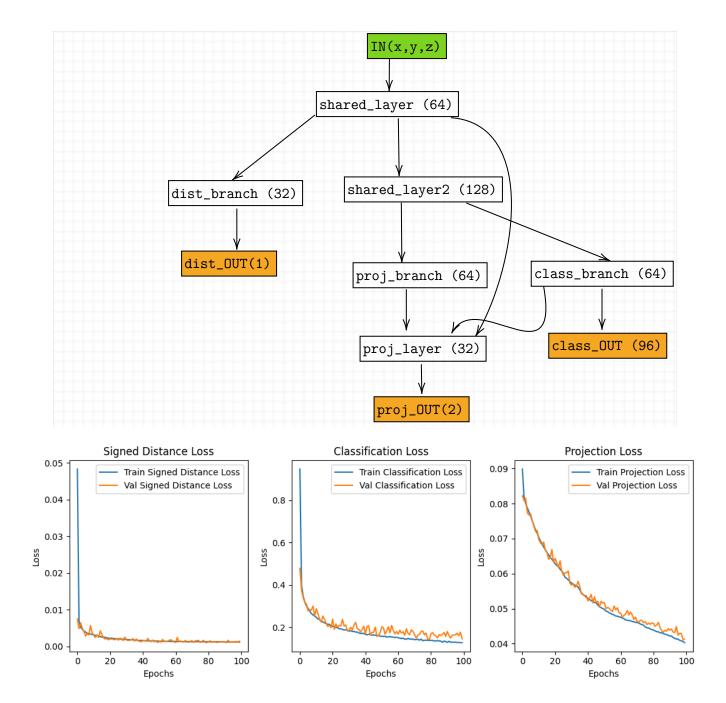
Calibration1



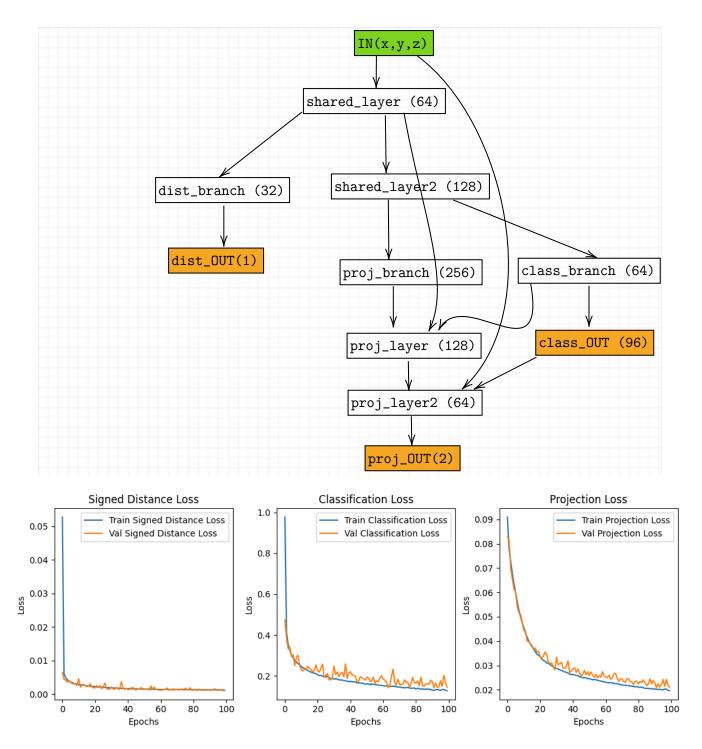
Calibration1_2



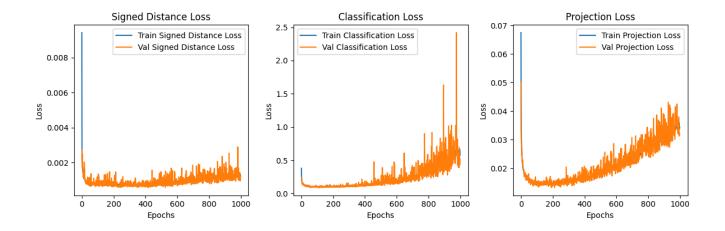
Calibration2



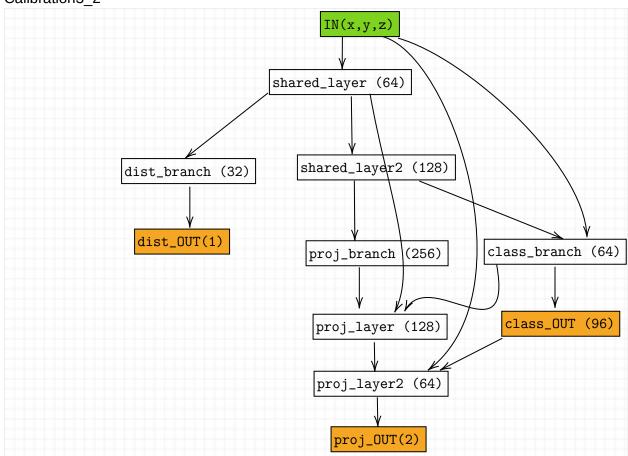
Calibration3

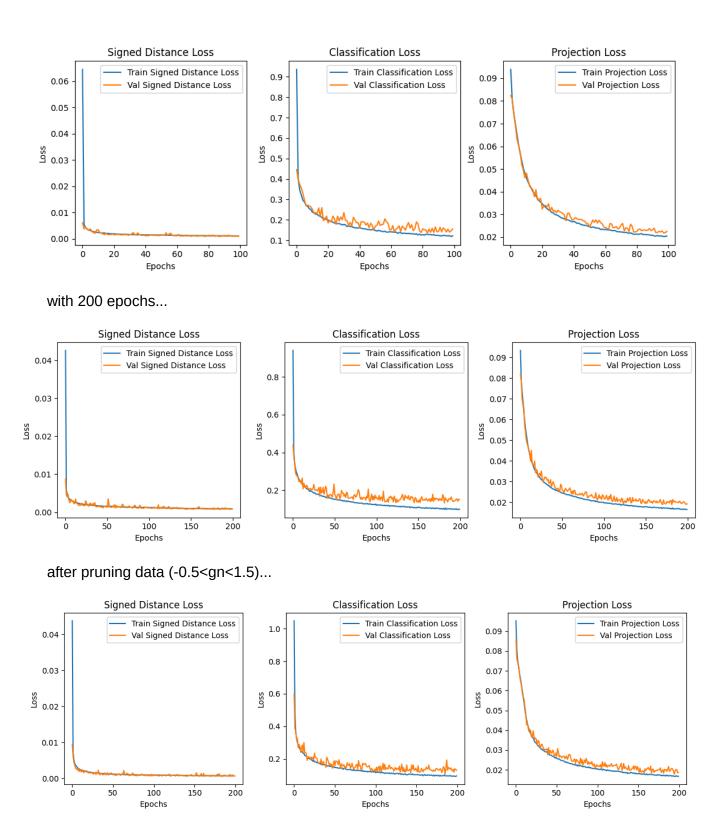


same but 10% of samples, 1000epochs...

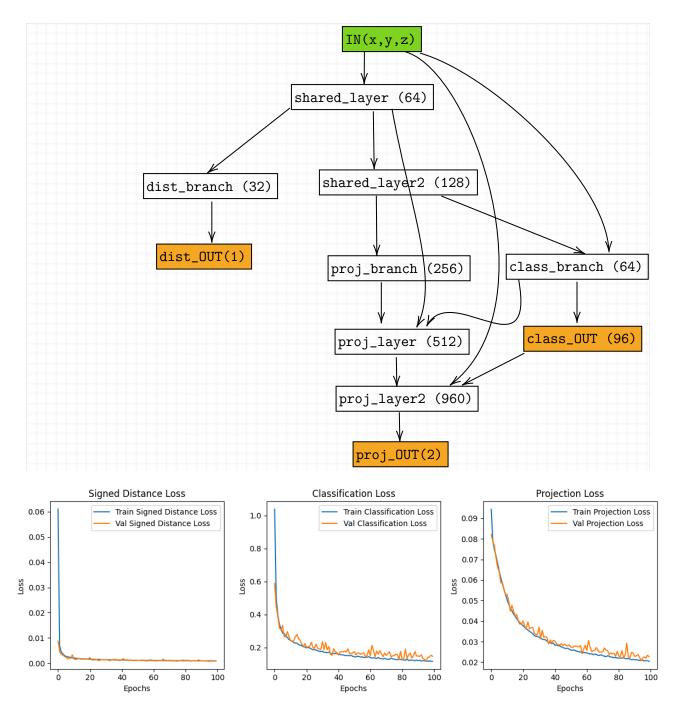








Calibration3_2_2 (increased units for regression, hoping to get selective use, when merging with classification output)



improves a lot the xi1,xi2 prediction. But close to the edge the accuracy ir very poor...

```
Sample 54740:
Predicted p_id -> 72 (1.00e+00), 68 (1.14e-04), 73 (4.28e-08), 21 (2.81e-12)
True p id
               -> 72
Predicted (xi1, xi2) -> patch 72: (0.17, 0.63), patch 68: (0.17, 0.63)
True (xil, xi2)
                  -> (0.23, 0.63)
Predicted gn
                  -> patch 72: 1.290, patch 68: 1.290
True gn
                  -> 1.284
Sample 14676:
Predicted p_id -> 71 (5.80e-01), 75 (4.20e-01), 74 (9.11e-11), 67 (2.28e-15)
True p id
             -> 71
Predicted (xi1, xi2) -> patch 71: (0.39, 0.13), patch 75: (0.39, 0.13)
                    -> (0.99, 0.20)
True (xi1, xi2)
Predicted gn
                  -> patch 71: 0.995, patch 75: 0.995
True gn
                  -> 1.013
```

Figure 1: Sample 54740: Good projection. Sample 14676:Bad projection

Calibration3 3

