**Baseline:**

**Training logs [done on colab with GPU]:**

Training Begins...

Unfrozen Blocks: 1, Current lr: 0.00023999999999999998, Trainable Params: 17953954

The loss at epoch 0 was 56.558860778808594 and the training accuracy is 0.2641128897666931

The loss at epoch 1 was 50.52006149291992 and the training accuracy is 0.6250000596046448

Unfrozen Blocks: 2, Current lr: 0.000192, Trainable Params: 25041826

The loss at epoch 2 was 44.12189483642578 and the training accuracy is 0.7620967030525208

The loss at epoch 3 was 38.5203857421875 and the training accuracy is 0.8518145084381104

Unfrozen Blocks: 3, Current lr: 0.00015360000000000002, Trainable Params: 32129698

The loss at epoch 4 was 33.60707473754883 and the training accuracy is 0.9133062362670898

The loss at epoch 5 was 29.26893424987793 and the training accuracy is 0.9445563554763794

Unfrozen Blocks: 4, Current lr: 0.00012288000000000002, Trainable Params: 39217570

The loss at epoch 6 was 25.79910659790039 and the training accuracy is 0.9495967030525208

The loss at epoch 7 was 22.561059951782227 and the training accuracy is 0.9637095332145691

Unfrozen Blocks: 5, Current lr: 9.830400000000001e-05, Trainable Params: 46305442

The loss at epoch 8 was 19.980636596679688 and the training accuracy is 0.9717739820480347

The loss at epoch 9 was 17.819774627685547 and the training accuracy is 0.9818545579910278

Unfrozen Blocks: 6, Current lr: 7.864320000000001e-05, Trainable Params: 53393314

The loss at epoch 10 was 15.993633270263672 and the training accuracy is 0.9828627109527588

The loss at epoch 11 was 14.366914749145508 and the training accuracy is 0.991935133934021

Unfrozen Blocks: 7, Current lr: 6.291456000000001e-05, Trainable Params: 60481186

The loss at epoch 12 was 13.084632873535156 and the training accuracy is 0.9989914894104004

The loss at epoch 13 was 12.040534019470215 and the training accuracy is 0.9999995231628418

Unfrozen Blocks: 8, Current lr: 5.0331648000000016e-05, Trainable Params: 67569058

The loss at epoch 14 was 11.161625862121582 and the training accuracy is 0.9999995231628418

The loss at epoch 15 was 10.418895721435547 and the training accuracy is 0.9999995231628418

Unfrozen Blocks: 9, Current lr: 4.026531840000002e-05, Trainable Params: 74656930

The loss at epoch 16 was 9.787375450134277 and the training accuracy is 0.9999995231628418

The loss at epoch 17 was 9.22145938873291 and the training accuracy is 0.9999995231628418

Unfrozen Blocks: 10, Current lr: 3.221225472000002e-05, Trainable Params: 81744802

The loss at epoch 18 was 8.725656509399414 and the training accuracy is 0.9999995231628418

The loss at epoch 19 was 8.444194793701172 and the training accuracy is 0.9999995231628418

Unfrozen Blocks: 11, Current lr: 2.5769803776000016e-05, Trainable Params: 88832674

The loss at epoch 20 was 8.01870346069336 and the training accuracy is 0.9999995231628418

The loss at epoch 21 was 7.707145690917969 and the training accuracy is 0.9999995231628418

Unfrozen Blocks: 12, Current lr: 2.0615843020800013e-05, Trainable Params: 88832674

The loss at epoch 22 was 7.450028419494629 and the training accuracy is 0.9999995231628418

The loss at epoch 23 was 7.236445426940918 and the training accuracy is 0.9999995231628418

Unfrozen Blocks: 13, Current lr: 1.649267441664001e-05, Trainable Params: 88832674

The loss at epoch 24 was 7.076934814453125 and the training accuracy is 0.9999995231628418

The loss at epoch 25 was 6.876699924468994 and the training accuracy is 0.9999995231628418

Unfrozen Blocks: 14, Current lr: 1.319413953331201e-05, Trainable Params: 88832674

The loss at epoch 26 was 6.703747749328613 and the training accuracy is 0.9999995231628418

The loss at epoch 27 was 6.601689338684082 and the training accuracy is 0.9999995231628418

Unfrozen Blocks: 15, Current lr: 1.0555311626649608e-05, Trainable Params: 88832674

The loss at epoch 28 was 6.436883926391602 and the training accuracy is 0.9999995231628418

The loss at epoch 29 was 6.368015766143799 and the training accuracy is 0.9999995231628418

A picture containing shape

Description automatically generated

A picture containing graphical user interface

Description automatically generated

Training Completed

**Testing logs [done on colab CPU]:**

Correct: 1, Total: 1, Incorrect: 0

Correct: 2, Total: 2, Incorrect: 0

Correct: 3, Total: 3, Incorrect: 0

Correct: 4, Total: 4, Incorrect: 0

Correct: 5, Total: 5, Incorrect: 0

Correct: 6, Total: 6, Incorrect: 0

Correct: 7, Total: 7, Incorrect: 0

Correct: 8, Total: 8, Incorrect: 0

Correct: 9, Total: 9, Incorrect: 0

Correct: 10, Total: 10, Incorrect: 0

Correct: 11, Total: 11, Incorrect: 0

Correct: 12, Total: 12, Incorrect: 0

Correct: 13, Total: 13, Incorrect: 0

Correct: 14, Total: 14, Incorrect: 0

Correct: 15, Total: 15, Incorrect: 0

Correct: 16, Total: 16, Incorrect: 0

Correct: 17, Total: 17, Incorrect: 0

Correct: 18, Total: 18, Incorrect: 0

Correct: 19, Total: 19, Incorrect: 0

Correct: 20, Total: 20, Incorrect: 0

Correct: 21, Total: 21, Incorrect: 0

Correct: 22, Total: 22, Incorrect: 0

Correct: 22, Total: 23, Incorrect: 1

Correct: 22, Total: 24, Incorrect: 2

Correct: 23, Total: 25, Incorrect: 2

Correct: 24, Total: 26, Incorrect: 2

Correct: 25, Total: 27, Incorrect: 2

Correct: 26, Total: 28, Incorrect: 2

Rank1: 0.929, Rank5: 1.000, mAP: 0.908