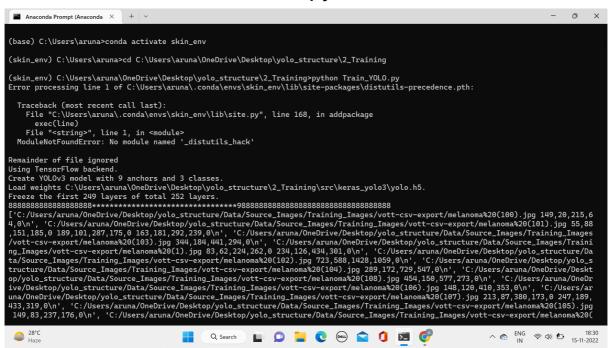
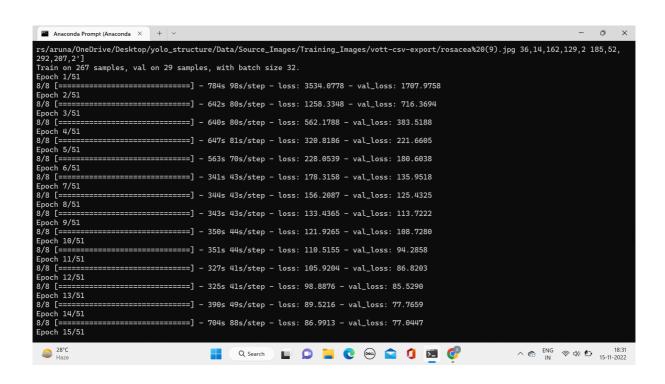
SPRINT 3 - TRAINING YOLO

EXECUTION OF Train_YOLO.py



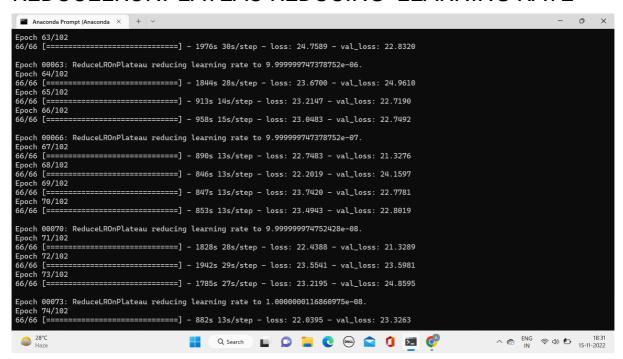
FREEZE ALL LAYERS -TRAIN ON 267 SAMPLES, VAL ON 29 SAMPLES, WITH BATCH SIZE 32



UNFREE ALL LAYERS -TRAIN ON 267 SAMPLES, VAL ON 29 SAMPLES, WITH BATCH SIZE 4

```
Anaconda Prompt (Anaconda X
                h 49/51
8/8 [===
               Epoch 50/51
8/8 [=====
                 ch 51/51
                 Unfreeze all layers.
Train on 267 samples, val on 29 samples, with batch size 4.
Epoch 52/102
66/66 [==
                 ========] - 813s 12s/step - loss: 31.2485 - val_loss: 27.3707
Epoch 53/102
66/66 Epoch 547.
66/66 E=====
66/66 [====
Epoch 54/102
                    =======] - 5033s 76s/step - loss: 28.1337 - val_loss: 26.9772
                  66/66 [====
Epoch 56/102
66/66 [=====
                    =======] - 1011s 15s/step - loss: 26.9931 - val_loss: 27.0795
                 Epoch 57, 66/66 [=:
                            - 788s 12s/step - loss: 26.1986 - val_loss: 26.5729
                      ======]
Epoch
66/66
    58/102
                             784s 12s/step - loss: 25.1017 - val_loss: 23.6815
Epoch 59
66/66 [=
    59/102
                             786s 12s/step - loss: 25.2507 - val_loss: 26.8350
    60/102
Epoch
    [=====
61/102
                          =] - 786s 12s/step - loss: 25.0014 - val_loss: 22.4921
66/66 [=====
Epoch 62/102
                   :=======] - 810s 12s/step - loss: 25.8355 - val_loss: 27.2361
66/66 [====
Epoch 63/102
                       Q Search
```

REDUCELRONPLATEAU REDUCING LEARNING RATE



FARLY STOPPING AT FPOCH 77

```
■ Anaconda Prompt (Anaconda × + ∨
:=========] - 890s 13s/step - loss: 22.7483 - val_loss: 21.3276
             =========] - 846s 13s/step - loss: 22.2019 - val_loss: 24.1597
Epoch 00070: ReduceLROnPlateau reducing learning rate to 9.999999974752428e-08.
Epoch 71/102
66/66 [====
              72/102
Epoch 72/102
66/66 [=====
Epoch 73/102
66/66 [=====
               :========] - 1785s 27s/step - loss: 23.2195 - val_loss: 24.8595
Epoch 00073: ReduceLROnPlateau reducing learning rate to 1.0000000116860975e-08. Epoch 74/102
66/66 [=====
Epoch 75/102
        66/66 [======
66/66 [======
Fooch 76/102
        Epoch 00076: ReduceLROnPlateau reducing learning rate to 9.999999939225292e-10.
Epoch 77/102
66/66 [=====
              :=========] - 7450s 113s/step - loss: 24.0544 - val_loss: 23.1019
Epoch 00077: early stopping
 △ 28°C
                         🚆 Q Search 🔲 📵 🃜 🥲 🙉 😭 🚺 🗷 🚱
                                                                    ^ ♠ ENG ♠ ♠ ♠ ♠ 18:31
```

RECEIVED MODEL WEIGHTS

