Documentation

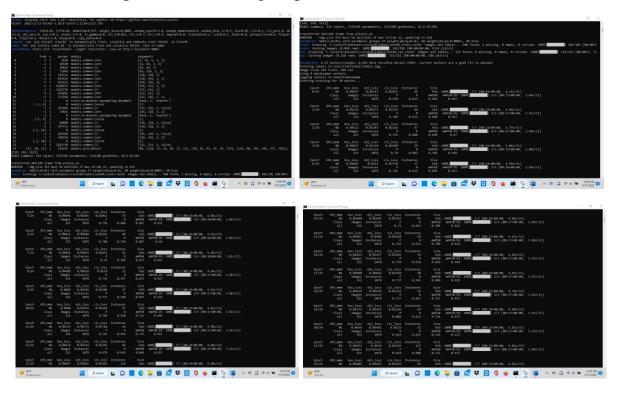
Michael Low

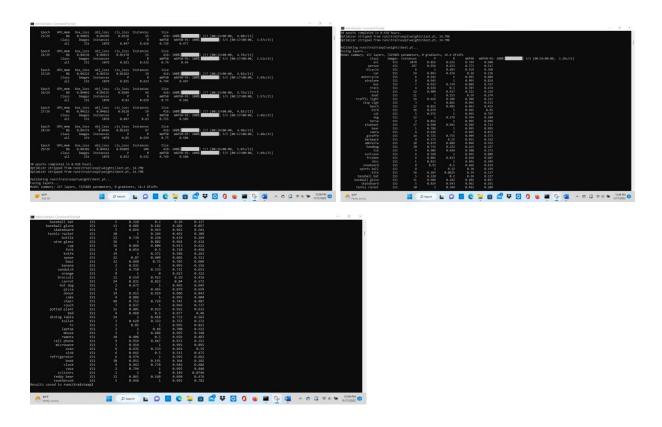
Alhaji A. Sharka

Project Title: Laboratory Assignment #8

Project Description: The goal of this lab demonstrates the ability to enhance recognition capability based on an existing Yolov5 dataset. Also, to demonstrate the ability to create an arcade-class game with sound and graphic settings to allow a challenge dance competition between two game players.

The console copied of the training output





Individual images recognized from the Yolov5 dataset.



Game Development

The dance moves of the actor

```
def reset_dancer():
    global game_over

if not game_over:
    dancer.image = "dancer-start"
    up.image = "up"
    right.image = "right"
    down.image = "down"
    left.image = "left"
    return
```

To determine the dancing time and scores of the two dancers

```
move_list2 = []
display_list2 = []
rounds2 = 0
score2 = 0
current_move2 = 0
count2 = 4
dance_length2 = 4

moves_complete2 = False
game_over2 = False
```

The condition set for the two players move set

```
update_dancer2(0)
     if move_list2[current_move2]==0:
         score2 = score2 + 1
         next_move2()
game_over2 = True
elif key == keys.D:
   update_dancer2(1)
    if move_list2[current_move2]==1:
    score2 = score2 + 1
         next_move2()
game_over2 = True
elif key == keys.S:
    update_dancer2(2)
     if move_list2[current_move2]==2:
         score2 = score2 + 1
         next_move2()
game_over2 = True
elif key == keys.A:
     update_dancer2(3)
     if move_list2[current_move2]==3:
         score2 = score2 + 1
         next_move2()
         game_over2 = True
```