HELMET DETECTION

ANNOTATION CLASSES:

- driver_with_automobile_helmet
- driver_without_automobile_helmet
- · driver with bare head
- non driver with automobile helmet
- non_driver_without_automobile_helmet
- · non driver with bare head
- Just automobile helmet
- Just_ non_automobile_helmet

VARIATIONS:

- with_automobile_helmet
 - 1. Bike helmet
 - Full face helmet
 - Half helmet (Skull cap helmet)
 - Off-road helmet
 - Three quarter helmet
 - Dual sport helmet
 - Modular helmet
- without_automobile_helmet
 - 1. Cap
 - 2. Scarf bandana
 - 3. Sikh turban
 - 4. Cycle helmet
 - 5. Construction helmet
 - 6. Welding helmet

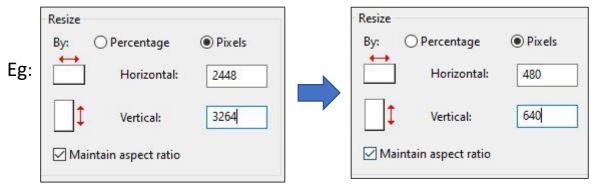
- with_bare_head
 - 1. With hair
 - 2. Bald head
- Just_ automobile_helmet
 - 1. Bike helmet
 - Full face helmet
 - Half helmet (Skull cap helmet)
 - Off-road helmet
 - Three quarter helmet
 - Dual sport helmet
 - Modular helmet
- Just_ non_automobile_helmet
 - 1. Cap
 - 2. Scarf bandana
 - 3. Sikh turban
 - 4. Cycle helmet
 - 5. Construction helmet
 - 6. Welding helmet

REQUIREMENTS:

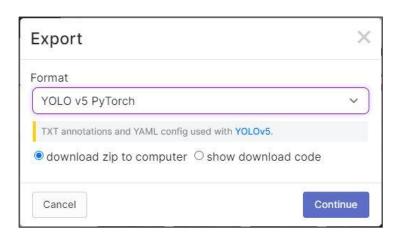
- Image capturing Only "Potrait" selfie images.
 Maintain selfies at this zoom level
- Image resolution Capture at those particular pixel size, when resizing (keeping the aspect ratio enabled) the pixel should be 480 x 640

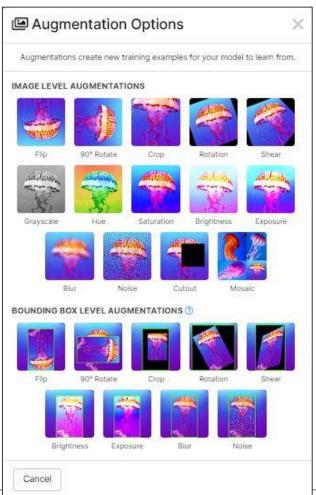


3. Use resized 480 x 640 images for segmentation in roboflow



- 4. If possible use Augmentation options like "rotation", "rotate by angle", "shear" etc, before zipping it
- Export by zipping it under the format "YOLO v5 PyTorch"





BUFIRCATION DETAILS:

- Selfies by male and female
- Helmet with different colors
- Lighting conditions Sunlight, dawn, dusk, twilight, etc
- Indoor and outdoors
- With rain
- Selfies with helmet visor (tinted glass or non-tinted glass shield) opened, closed, half opened, etc
- Selfie zone ————
- Racial selection: Indians only

Home

Isolated selfie

Crowded place

- Office
- School
- Hospital etc.....

driver with automobile helmet:





driver without automobile helmet:





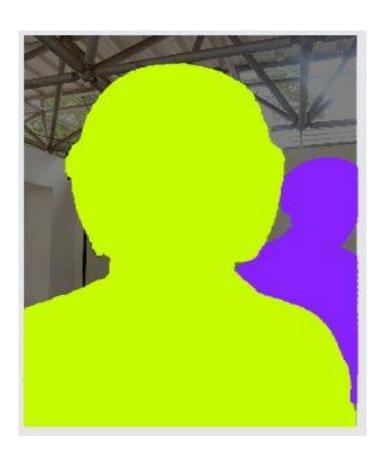
driver_with_bare_head:





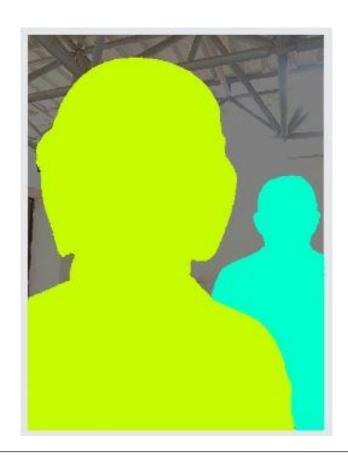
non_driver_with_automobile_helmet:





non_driver_without_automobile_helmet:





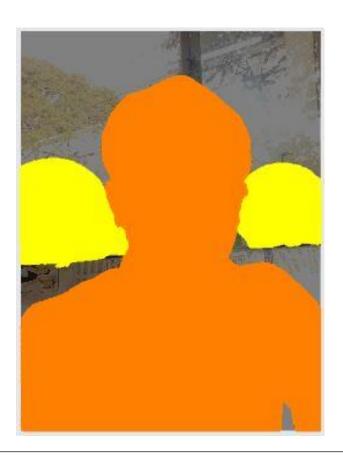
non_driver_with_bare_head:





Just_automobile_helmet:





Just_non_automobile_helmet:

