```
!pip install ultralytics


!pip install roboflow


from roboflow import Roboflow
rf = Roboflow(api_key="Ime1ggrxFEKYl2QnzPOU")
project = rf.workspace("vultur-x01i3").project("kabras")
version = project.version(2)
dataset = version.download("yolov8")
```

```
        loading Roboflow workspace...
        loading Roboflow project...
        Dependency ultralytics==8.0.196 is required but found version=8.2.11, to fix: `pip install ultralytics==8.0.196`
        Downloading Dataset Version Zip in Kabras-2 to yolov8:: 100%|██████████| 213383/213383 [00:04<00:00, 46249.11it/s]

        Extracting Dataset Version Zip to Kabras-2 in yolov8:: 100%|██████████| 8253/8253 [00:01<00:00, 5934.51it/s]
```

```
!yolo task=detect mode=train model=yolov8m.pt data=/content/Kabras-2/data.yaml epochs=20 imgsz=640
```

```
        Epoch    GPU_mem   box_loss   cls_loss   dfl_loss  Instances       Size
        12/20      7.26G     0.6249     0.3847      1.031         33        640: 100% 238/238 [02:13<00:00,  1.78it/s]
                   Class     Images  Instances      Box(P          R      mAP50  mAP50-95): 100% 10/10 [00:04<00:00,  2.06it/s]
                     all        318       1255      0.989      0.982      0.993      0.866

        Epoch    GPU_mem   box_loss   cls_loss   dfl_loss  Instances       Size
        13/20      7.35G     0.5901     0.3574      1.006         32        640: 100% 238/238 [02:10<00:00,  1.83it/s]
                   Class     Images  Instances      Box(P          R      mAP50  mAP50-95): 100% 10/10 [00:04<00:00,  2.04it/s]
                     all        318       1255      0.987      0.978      0.994      0.876

        Epoch    GPU_mem   box_loss   cls_loss   dfl_loss  Instances       Size
        14/20      7.29G     0.5453     0.3326     0.9739         53        640: 100% 238/238 [02:12<00:00,  1.79it/s]
                   Class     Images  Instances      Box(P          R      mAP50  mAP50-95): 100% 10/10 [00:04<00:00,  2.03it/s]
                     all        318       1255      0.985      0.986      0.994      0.891

        Epoch    GPU_mem   box_loss   cls_loss   dfl_loss  Instances       Size
        15/20      7.37G     0.5118     0.3118     0.9538         29        640: 100% 238/238 [02:11<00:00,  1.81it/s]
                   Class     Images  Instances      Box(P          R      mAP50  mAP50-95): 100% 10/10 [00:04<00:00,  2.06it/s]
                     all        318       1255      0.993       0.99      0.995      0.914

        Epoch    GPU_mem   box_loss   cls_loss   dfl_loss  Instances       Size
        16/20      7.28G     0.4743     0.2915     0.9285         21        640: 100% 238/238 [02:11<00:00,  1.81it/s]
                   Class     Images  Instances      Box(P          R      mAP50  mAP50-95): 100% 10/10 [00:05<00:00,  1.87it/s]
                     all        318       1255      0.994       0.99      0.995      0.919

        Epoch    GPU_mem   box_loss   cls_loss   dfl_loss  Instances       Size
        17/20      7.35G      0.445     0.2719      0.915         40        640: 100% 238/238 [02:10<00:00,  1.82it/s]
                   Class     Images  Instances      Box(P          R      mAP50  mAP50-95): 100% 10/10 [00:04<00:00,  2.04it/s]
                     all        318       1255      0.998      0.988      0.995       0.93

        Epoch    GPU_mem   box_loss   cls_loss   dfl_loss  Instances       Size
        18/20      7.29G     0.4182     0.2551     0.8954         55        640: 100% 238/238 [02:12<00:00,  1.80it/s]
                   Class     Images  Instances      Box(P          R      mAP50  mAP50-95): 100% 10/10 [00:06<00:00,  1.49it/s]
                     all        318       1255      0.999      0.989      0.995      0.943

        Epoch    GPU_mem   box_loss   cls_loss   dfl_loss  Instances       Size
        19/20      7.33G     0.3854     0.2356      0.879         32        640: 100% 238/238 [02:11<00:00,  1.81it/s]
                   Class     Images  Instances      Box(P          R      mAP50  mAP50-95): 100% 10/10 [00:04<00:00,  2.04it/s]
                     all        318       1255      0.998      0.991      0.995       0.95

        Epoch    GPU_mem   box_loss   cls_loss   dfl_loss  Instances       Size
        20/20      7.24G     0.3622      0.225       0.87         39        640: 100% 238/238 [02:14<00:00,  1.77it/s]
                   Class     Images  Instances      Box(P          R      mAP50  mAP50-95): 100% 10/10 [00:05<00:00,  1.74it/s]
                     all        318       1255      0.999      0.992      0.995       0.96

        20 epochs completed in 0.799 hours.
        Optimizer stripped from runs/detect/train2/weights/last.pt, 52.0MB
        Optimizer stripped from runs/detect/train2/weights/best.pt, 52.0MB

        Validating runs/detect/train2/weights/best.pt...
        Ultralytics YOLOv8.2.11 🚀 Python-3.10.12 torch-2.2.1+cu121 CUDA:0 (Tesla T4, 15102MiB)
        Model summary (fused): 218 layers, 25840339 parameters, 0 gradients, 78.7 GFLOPs
                   Class     Images  Instances      Box(P          R      mAP50  mAP50-95): 100% 10/10 [00:12<00:00,  1.26s/it]
                     all        318       1255      0.999      0.992      0.995       0.96
        Speed: 0.4ms preprocess, 11.4ms inference, 0.0ms loss, 5.8ms postprocess per image
        Results saved to runs/detect/train2
        💡 Learn more at https://docs.ultralytics.com/modes/train
```

```
!yolo task=detect mode=val model=/content/runs/detect/train2/weights/best.pt data=/content/Kabras-2/data.yaml
```

```
Ultralytics YOLOv8.2.11 🚀 Python-3.10.12 torch-2.2.1+cu121 CUDA:0 (Tesla T4, 15102MiB)
Model summary (fused): 218 layers, 25840339 parameters, 0 gradients, 78.7 GFLOPs
val: Scanning /content/Kabras-2/valid/labels.cache... 318 images, 0 backgrounds, 0 corrupt: 100% 318/318 [00:00<?, ?it/s]
                 Class     Images  Instances      Box(P          R      mAP50  mAP50-95): 100% 20/20 [00:19<00:00,  1.04it/s]
                   all        318       1255      0.999      0.992      0.995      0.959
Speed: 3.2ms preprocess, 22.6ms inference, 0.5ms loss, 10.7ms postprocess per image
Results saved to runs/detect/val
💡 Learn more at https://docs.ultralytics.com/modes/val
```

Start coding or generate with AI.