Embedded Ai

UNDERWATER FISH DETECTION

!git clone https://github.com/WongKinYiu/yolov7

%cd yolov7

!pip install -r requirements.txt

!pip install roboflow

from roboflow import Roboflow

rf = Roboflow(api\_key="")

project = rf.workspace("roboflow-gw7yv").project("fish-yzfml")

dataset = project.version(43).download("yolov7")

%cd /content/yolov7

!wget "https://github.com/WongKinYiu/yolov7/releases/download/v0.1/yolov7.pt"

%cd /content/yolov7

!python train.py --batch 16 --cfg cfg/training/yolov7.yaml --epochs 100 --data

/content/yolov7/Fish-43/data.yaml --weights 'yolov7.pt' --device 0

!python detect.py --weights runs/train/exp/weights/best.pt --conf-thres 0.2 --source /content/yolov7/Fish-43/test/images

import glob

from IPython.display import Image, display

i = 0

limit = 10000 # max images to print

for imageName in glob.glob('/content/yolov7/runs/detect/exp2/\*.jpg'): #assuming JPG

    if i < limit:

      display(Image(filename=imageName))

      print("\n")

    i = i + 1



