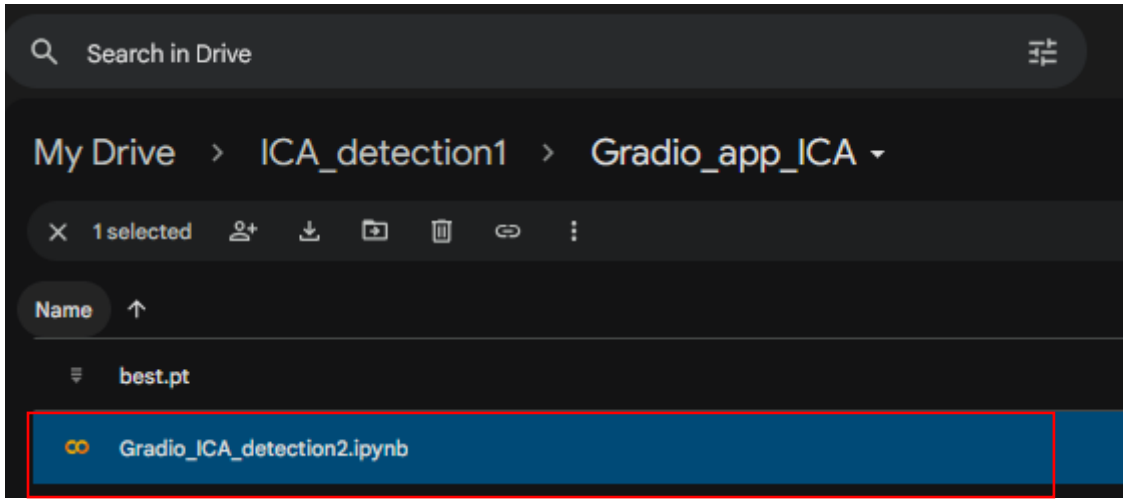
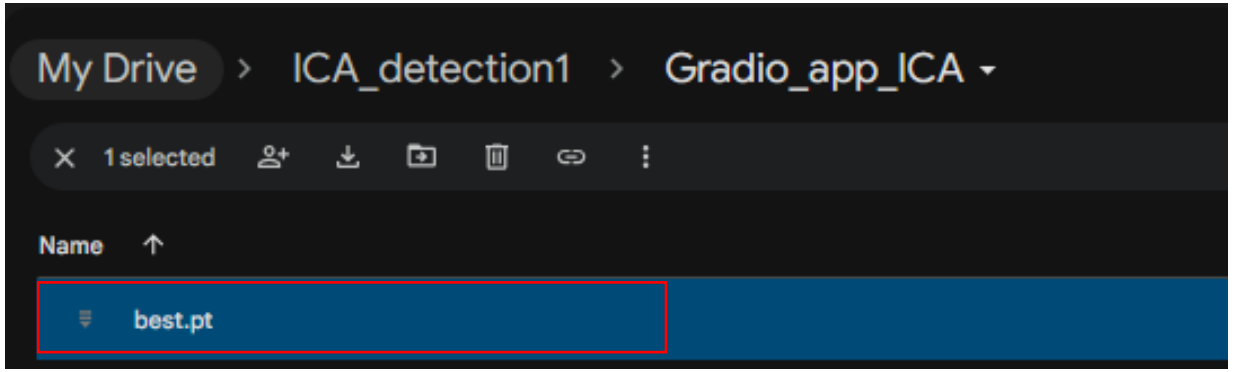
Gradio application for detection of poor compliance ICP wave

Upload file.ipynb (Gradio_ICA_detection2.ipynb) in your google drive

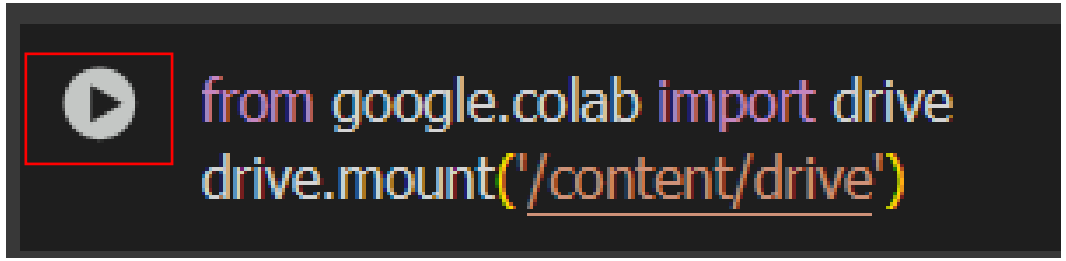


Upload best.pt in your google drive

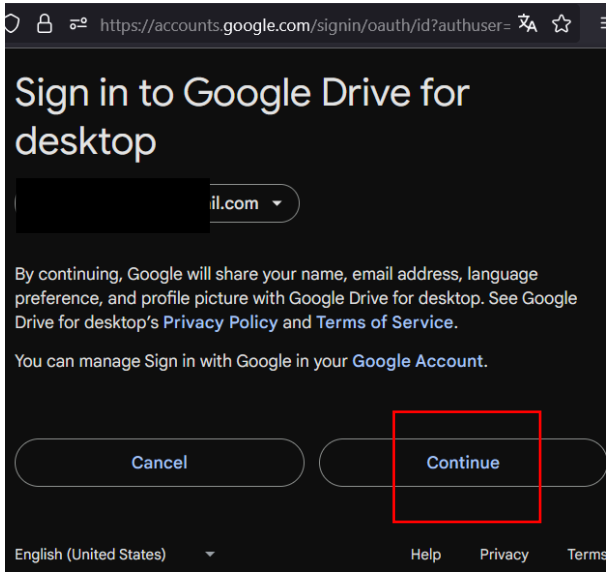


Open file.ipynb and run 1st script to mount your drive

click

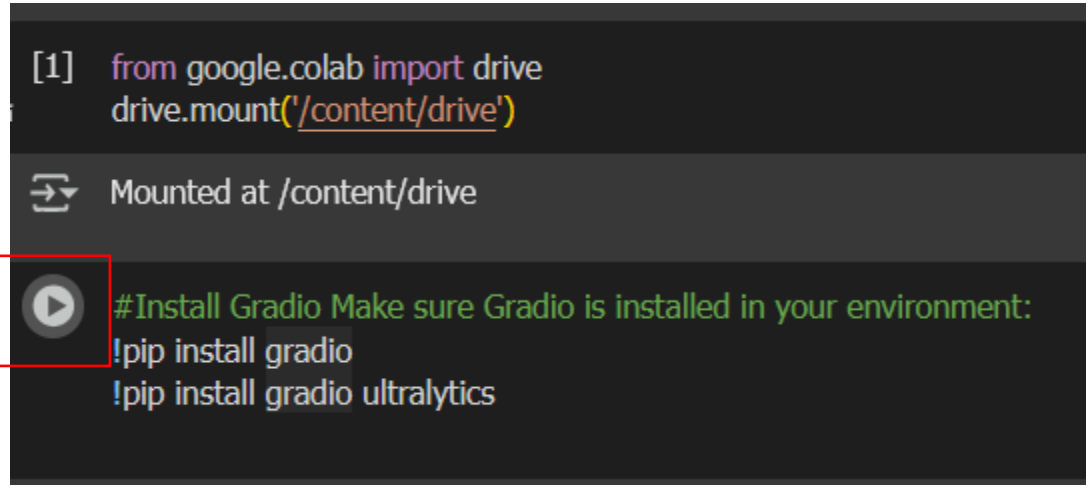


Then, consent to the mounting of your drive



run 2nd script to install gradio

click

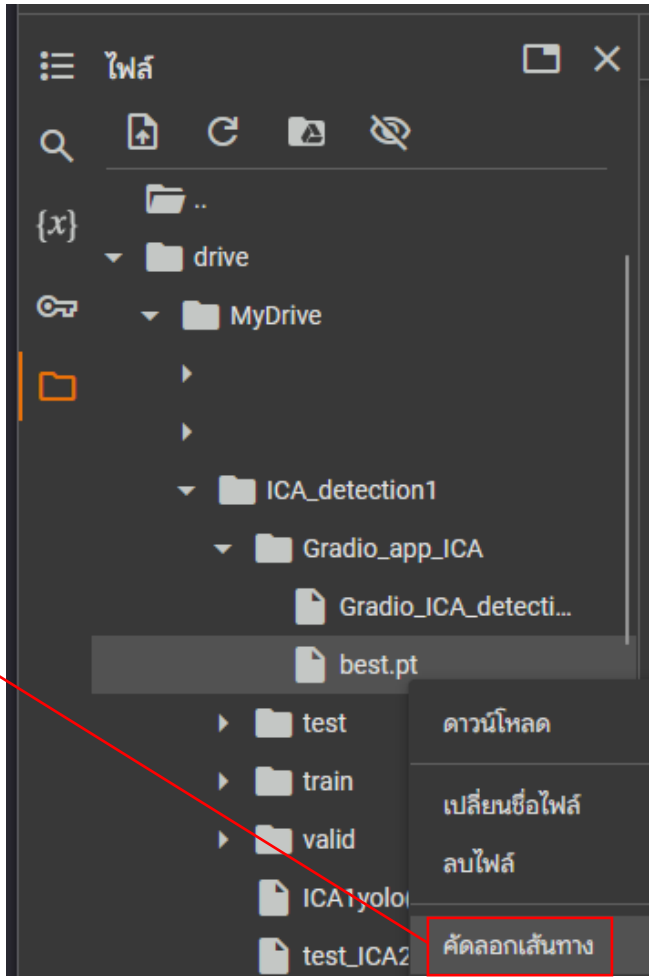


In 3rd script, modify to your path and then start script

YOLOv5 Inference with Gradio

```
import torch
import gradio as gr
from PIL import Image
import cv2
import numpy as np

# Load the trained YOLOv5 model
model = torch.hub.load('ultralytics/yolov5', 'custom', path='/content/drive/MyDrive/ICA_detection1/Gradio_app_ICA/best.pt') # Replace with your model path

# Define a function for inference
def detect_objects(image):
    # Convert Gradio's image to a format suitable for YOLOv5
    input_image = Image.fromarray(image)

    # Run inference
    results = model(input_image)

    # Render the results on the original image
    results.render()  # Render adds boxes and labels to the image

    # Convert to numpy for displaying in Gradio
    output_image = results.ims[0]

    return output_image
```

edit to your path



Gradio application will be launched