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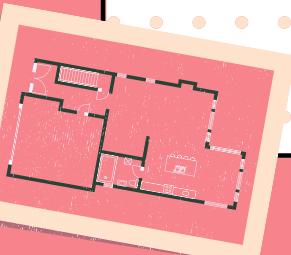
Animation

Keratoconus detection

yolov5

Wahayeb alanizi

Start Here ❤





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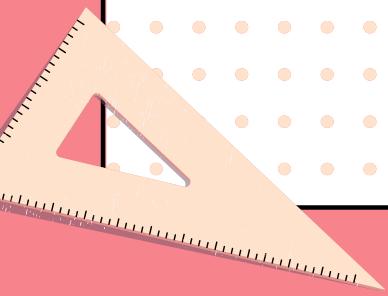
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Content

My project aims to identify the differences between keratoconus and normal corneas. Keratoconus is a pathological condition caused by the weakening of the corneal tissue, which alters its shape into a cone-like structure. The model has been trained to recognize and distinguish between normal corneas and keratoconus-affected corneas.



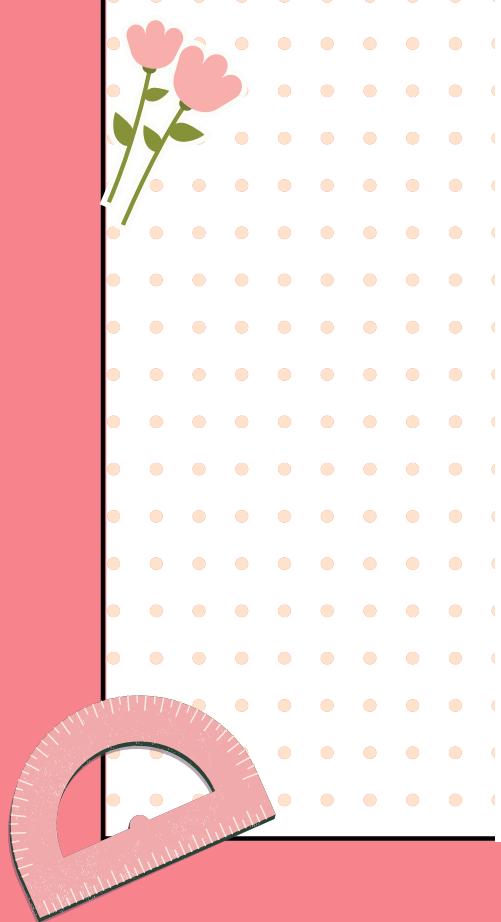
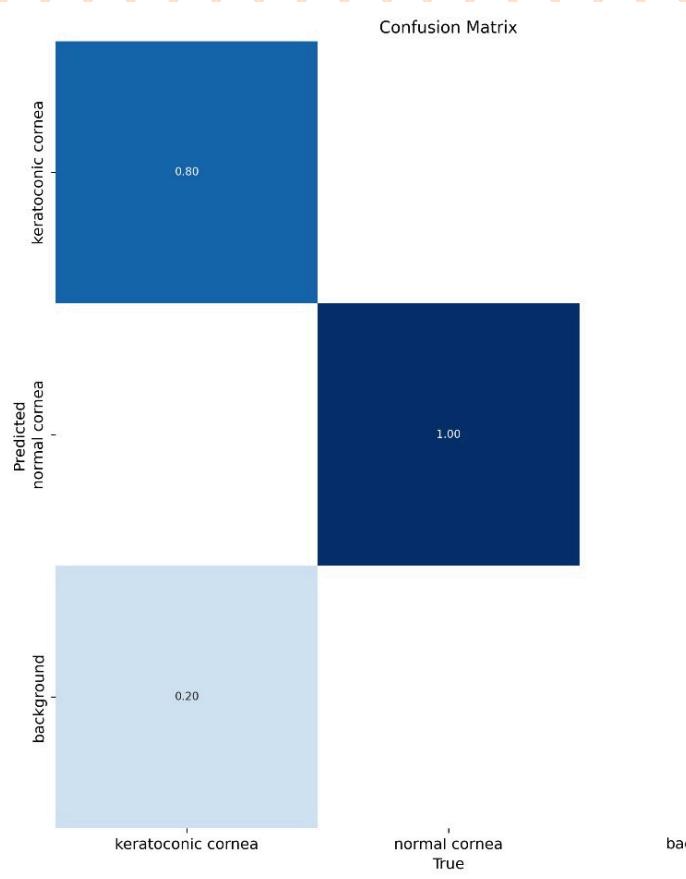


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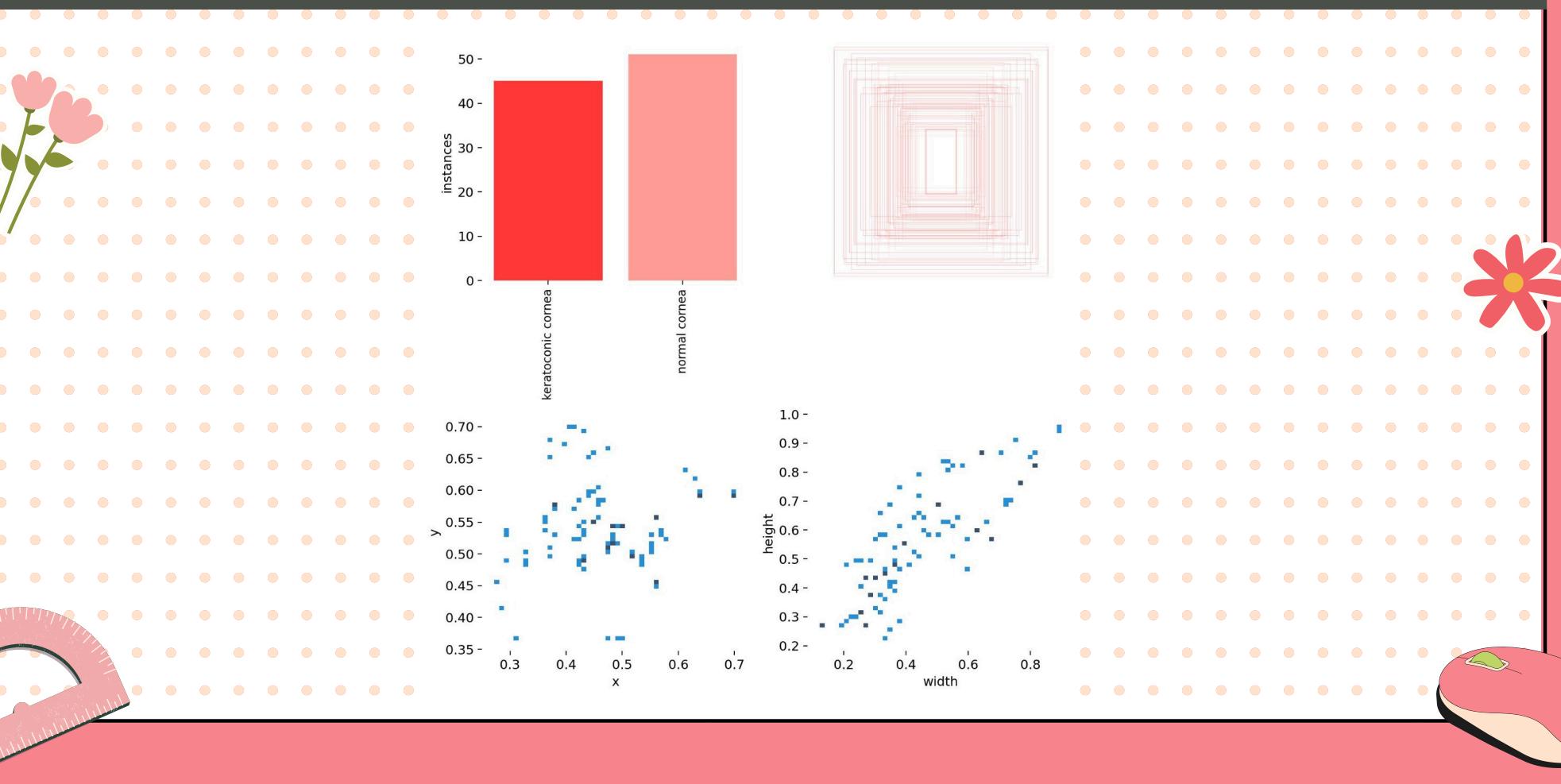


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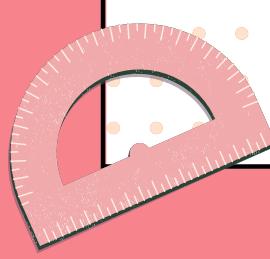
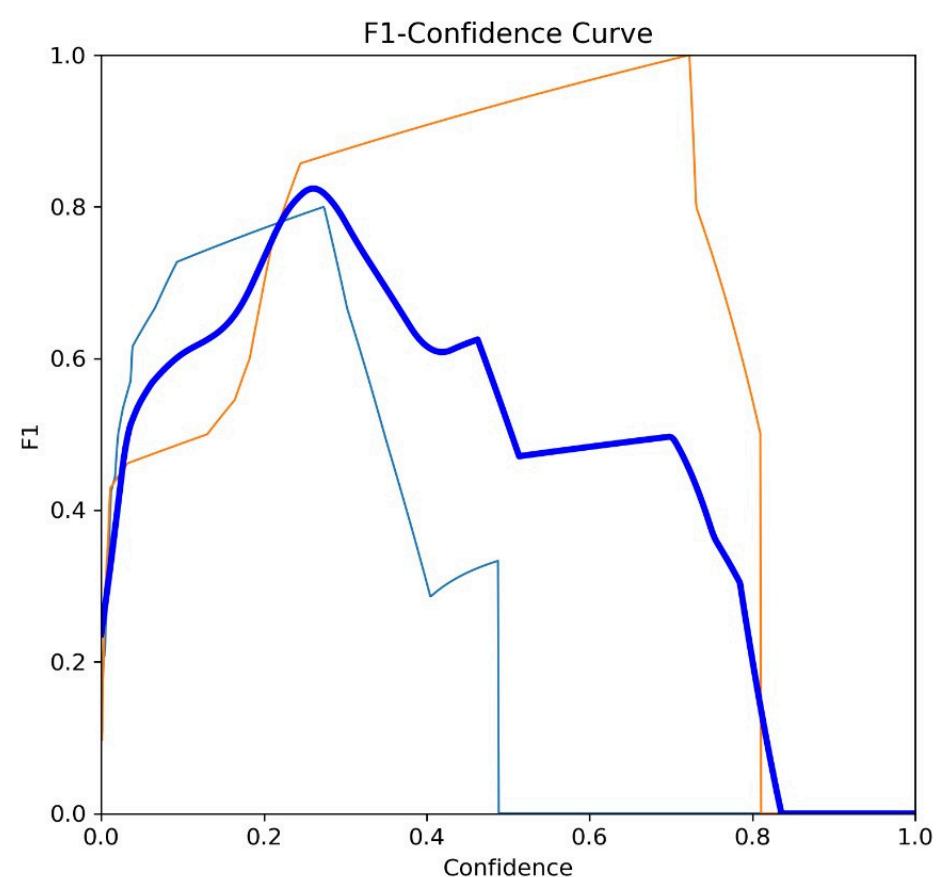


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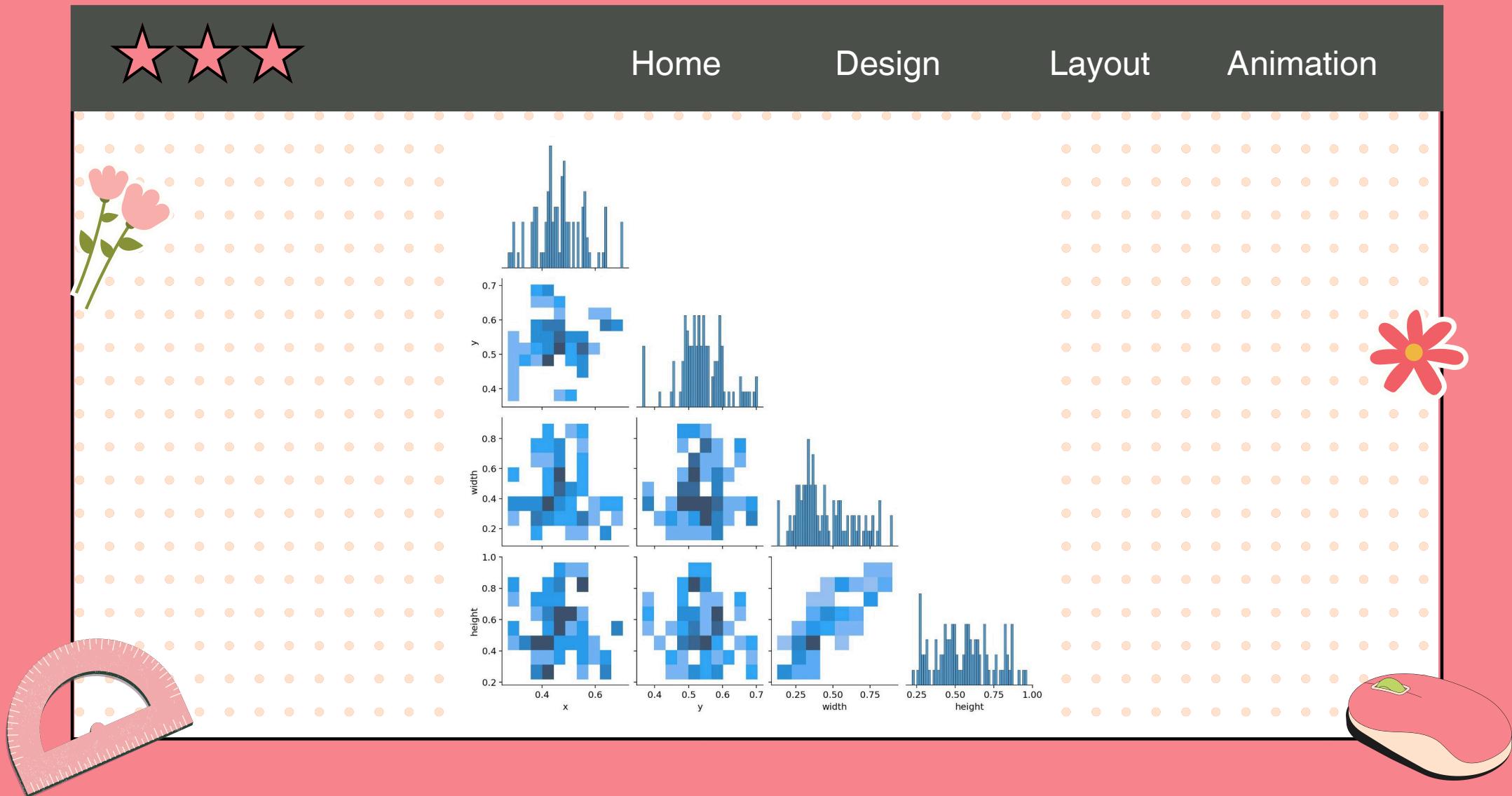


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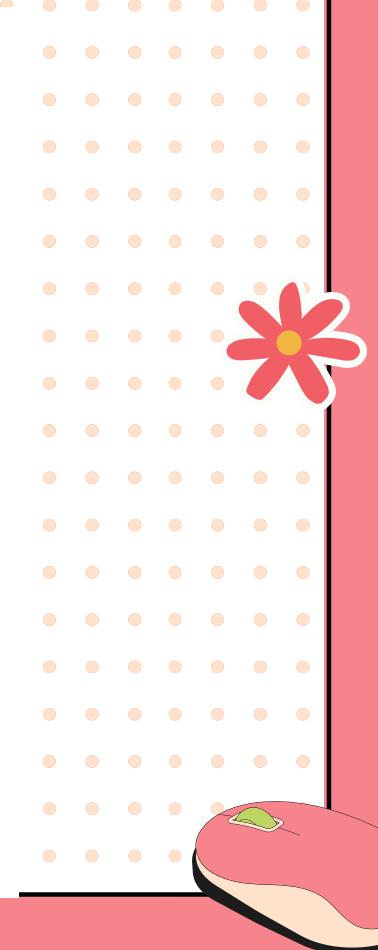
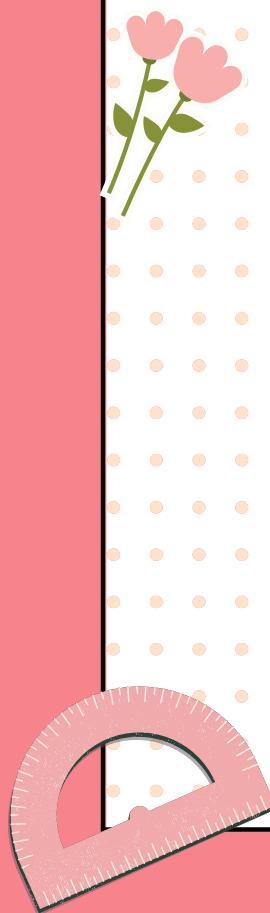
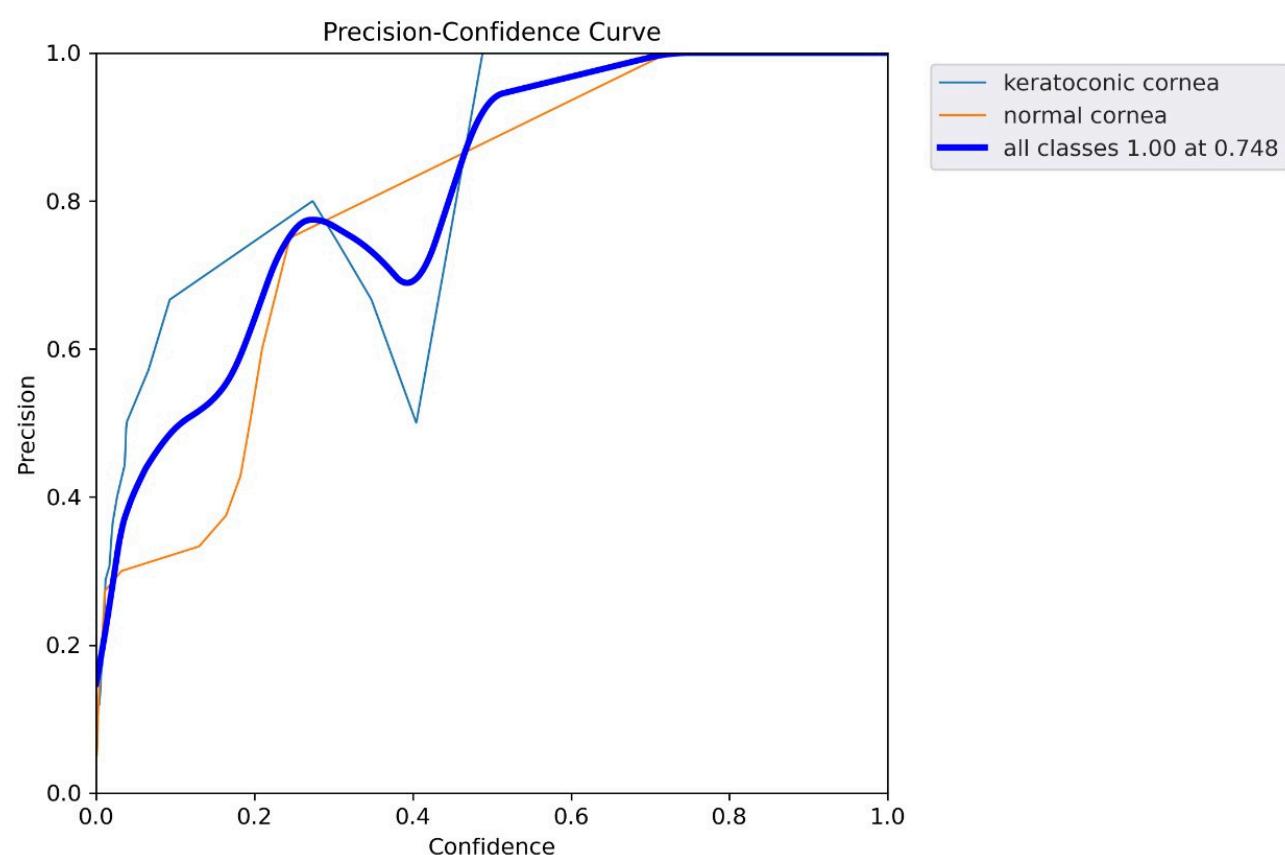


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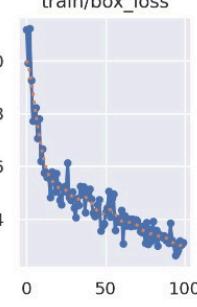
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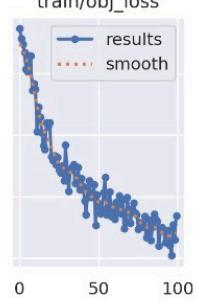
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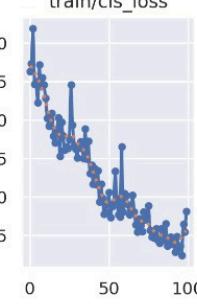
train/box_loss



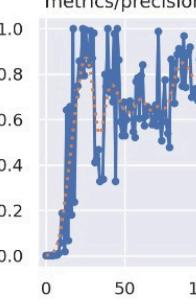
train/obj_loss



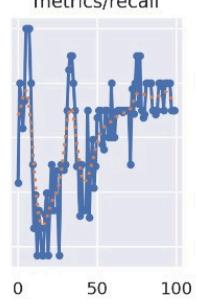
train/cls_loss



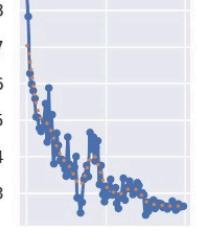
metrics/precision



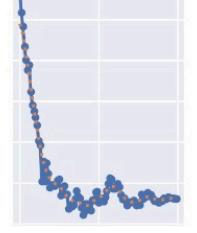
metrics/recall



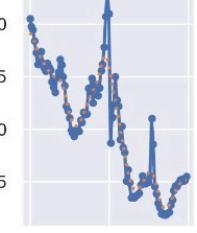
val/box_loss



val/obj_loss



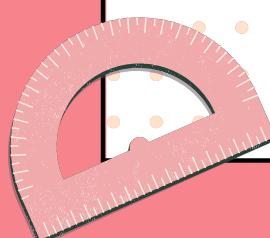
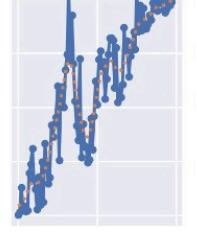
val/cls_loss



metrics/mAP_0.5



metrics/mAP_0.5:0.95



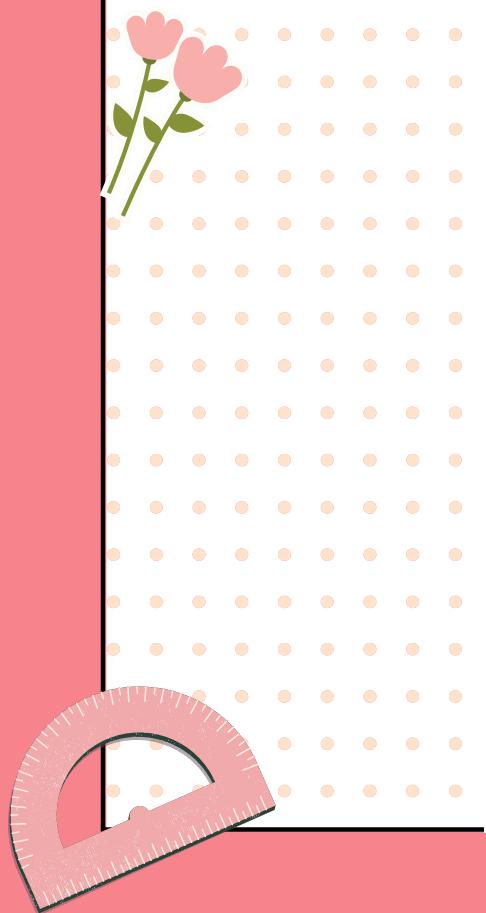
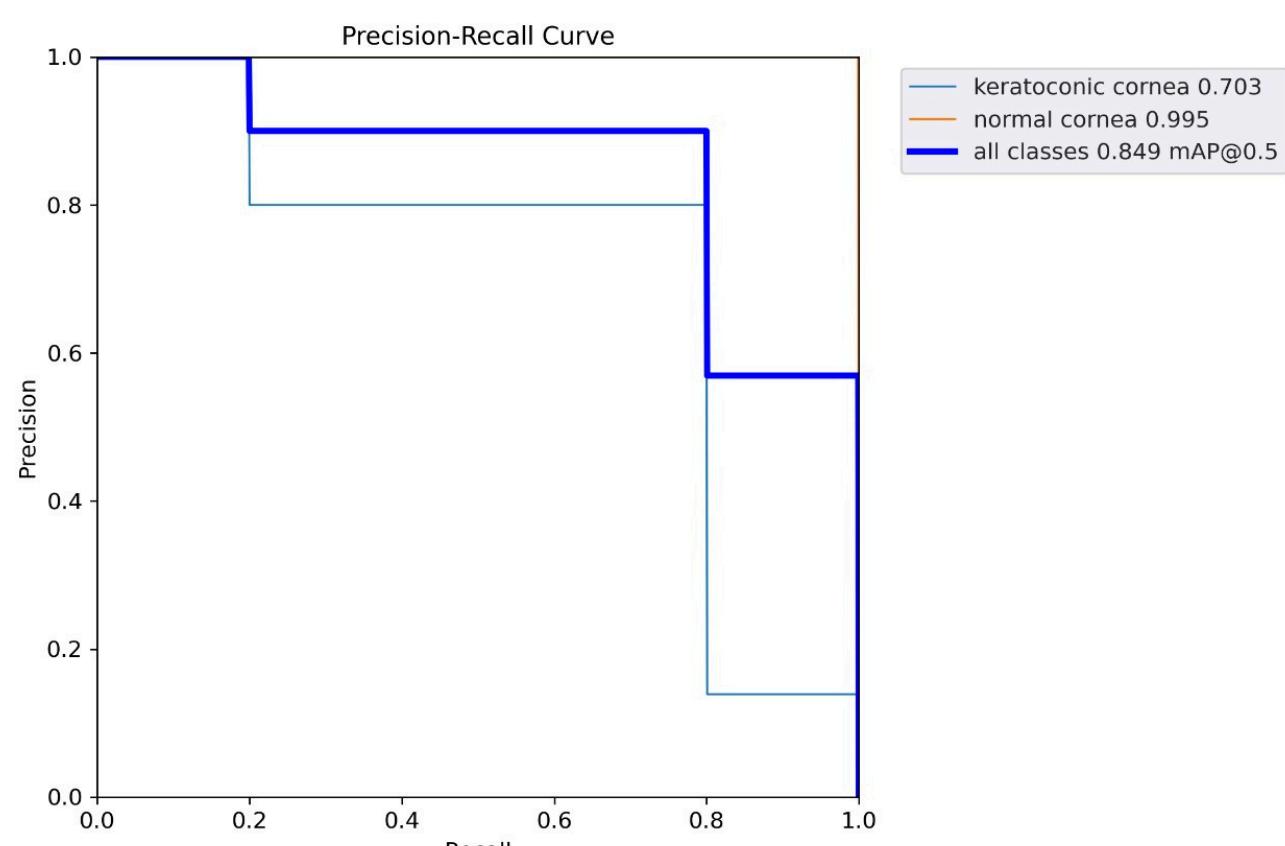


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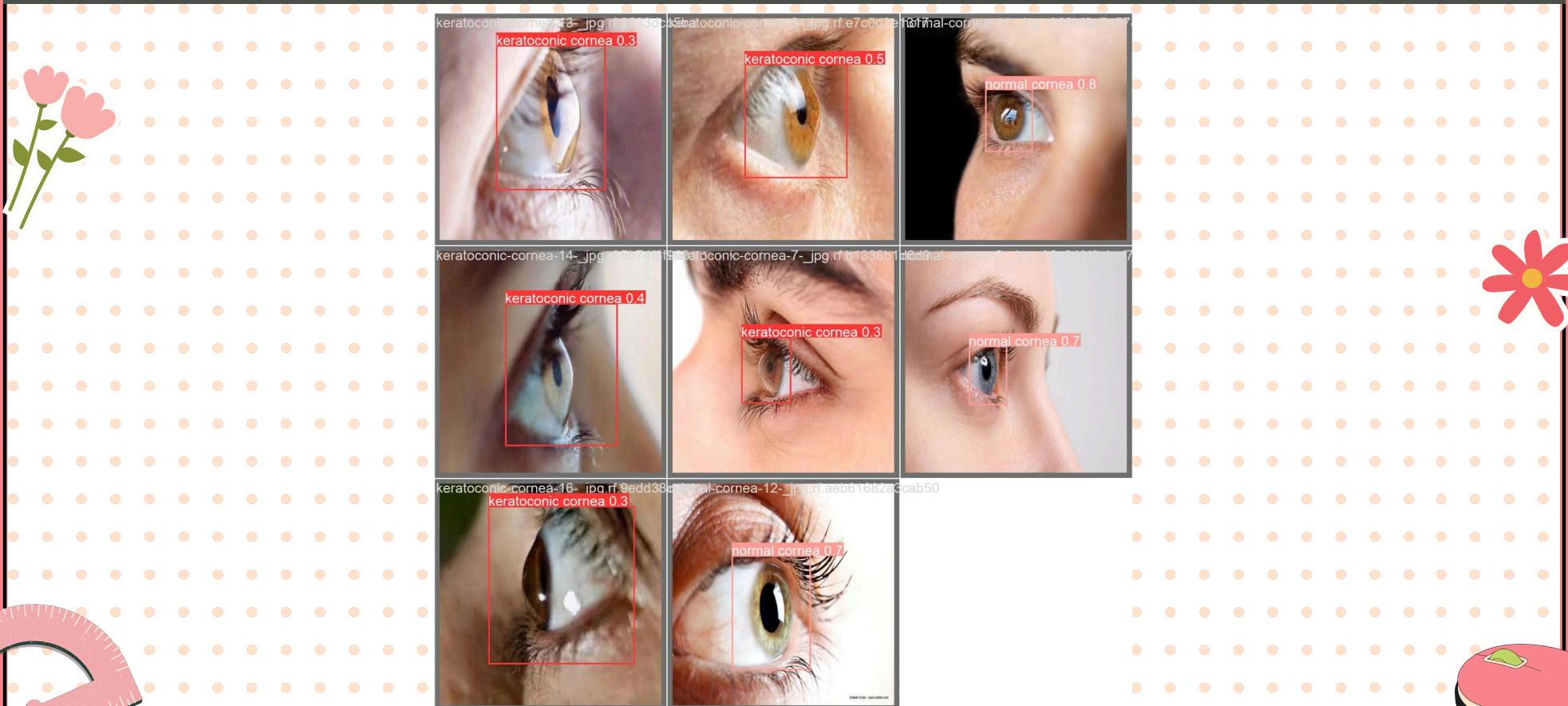


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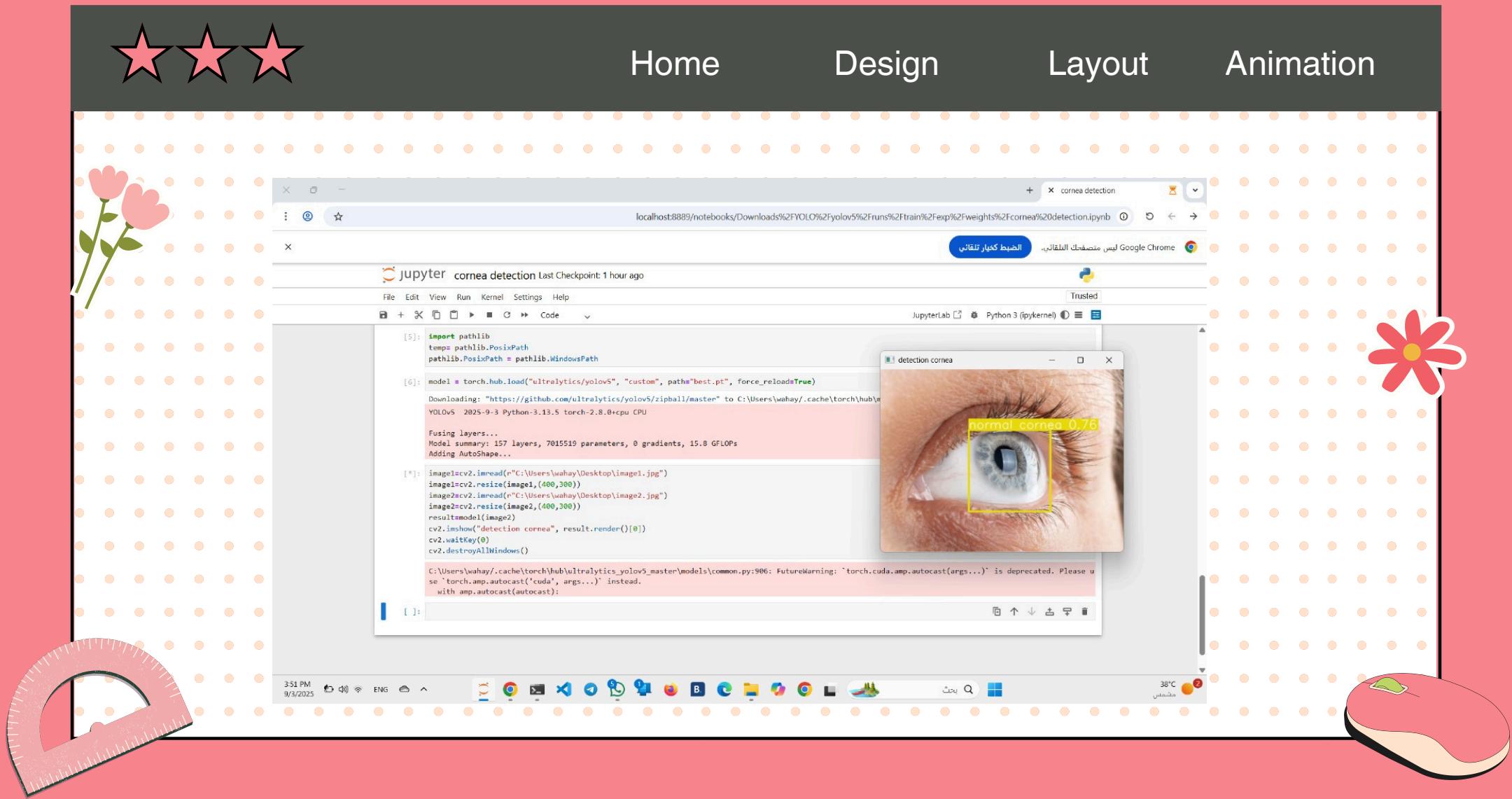


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jupyter cornea detection Last Checkpoint: 1 hour ago

```
[5]: import pathlib
temp = pathlib.PosixPath
pathlib.PosixPath = pathlib.WindowsPath

[6]: model = torch.hub.load("ultralytics/yolov5", "custom", path="best.pt", force_reload=True)
Downloading: "https://github.com/ultralytics/yolov5/zipball/master" to C:\Users\wahay\.cache\torch\hub\ultralytics\yolov5_2025-9-3 Python-3.13.5 torch-2.8.0+cpu CPU
Fusing layers...
Model summary: 157 layers, 7015519 parameters, 0 gradients, 15.8 GFLOPs
Adding AutoShape...

[*]: image1=cv2.imread(r"C:\Users\wahay\Desktop\image1.jpg")
image1=cv2.resize(image1,(400,300))
image2=cv2.imread(r"C:\Users\wahay\Desktop\image2.jpg")
image2=cv2.resize(image2,(400,300))
result=model([image1])
cv2.imshow("detection cornea", result.render()[0])
cv2.waitKey(0)
cv2.destroyAllWindows()

C:\Users\wahay\.cache\torch\ultralytics_yolov5_master\models\common.py:906: FutureWarning: `torch.cuda.amp.autocast(args...)` is deprecated. Please use `torch.amp.autocast('cuda', args...)` instead.
with amp.autocast(autocast):
```

Wednesday, September 3, 2025
الوقت المحلي

3:50 PM 9/3/2025 ENG 🔍 38°C