5/8/24 B+ A CS capsone Model Prior - manually labeled 1700 images (~6 cirls/image)
1728 photos of wells < 1300 for paining trained FRCNN foster region based NN Resnet 50 : pretrained model on faces, buses ... (type of FRCNN) June - time to wells (a lot of layers) at talk, trained CNN Courol. NN (3-4/ayers 25-40 min to train on Resnet weight Test 4100 precise Resnet try to find centers ofeach circle - Remet CNN - could say it was à cicle classifier. Couldut say where circles were Heat mapping 5 sec to take big image, finds circles grid, spot pH senson W straight lines

Vary orientation lightery backgrid (black, wood, white, double stad) Edit i if more angles

Full image \_x\_ Cropped it down 777x 936

CVAT to label circles (on web)

41% prease — are boxes drawn same way box survoinds each circle

To move robot to donied circle, faultylogic

Jupyter Legola Demo added section Testing OpenCV final config. yaml - Brendan's name First all does what manual mode does Cale of adjustment—facety
Thageassessment.py. facety
Finance is wrong

Related pixels to legolas coords

picture with a spot - pixel coords

moved Leg - to

Manual, py shows x, y position

Maele ratio of Legcoolds/pixel - maybe

(ould be logic is faulty)

Could be logic

192,168.611

suitabel bade to old ip ( see PPT how to do this)

7 B 192.168.412

vsername: quenloaf parsword: raspberry

Image Assessment, py verify x pos of verify y pos defo

Core, py line 336 363

5/20/24 andreg Mtps: 11 byola, 200 m. us/j /6944505758 Sudo apt-cache show python3-opener single snapshot core, py load model def move to cell line 32/ Ime 327 image bytes - captures the image 330 image decode from up, away to pil image 334 processed inge her to Inge Assessmed, py crops it -> Image dota-transform in load-model reads in trained model make : prediction malie grid line L [now [of1] [ol2] [ol3] (0,777) Bounding box for each wick minx maxx miny maxy r=140 pixels know center of desired aid

Inige Ass.pg

core . 17

Couret to coord list of wicles coordinates has "ty" (t,y) for centers

Smass

make\_grid\_lines

get neighbors

Make list of neighbors

0 + 3

hor & veit lines - Gest fit. Want go through centers recessarily

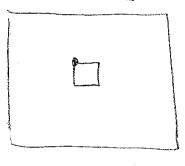
con

have greatmate of center of pH sensor (394, 663) values are exchalled pH-pixels could be wrong

piones in report are flejyzed

Get reasest live to inde closesto pt

Motor unto



heart sink took picture Find coods Juppen left corner Move profos Calib was done

Calib was done

Movady & 20 motor units

problem? Very y - pus

returns offset from ptt sensor

maybe math is incorrect