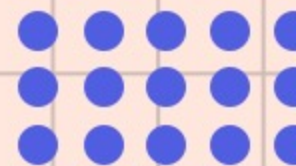


PILLS CLASSIFICATION



GROUP 5

MEDICAL
RESEARCH



MEMBER

62011087

ANANCHANA LERTPHITAKSUNTORN

62011178

NATTARRUD CHAROENNITHI

62011182

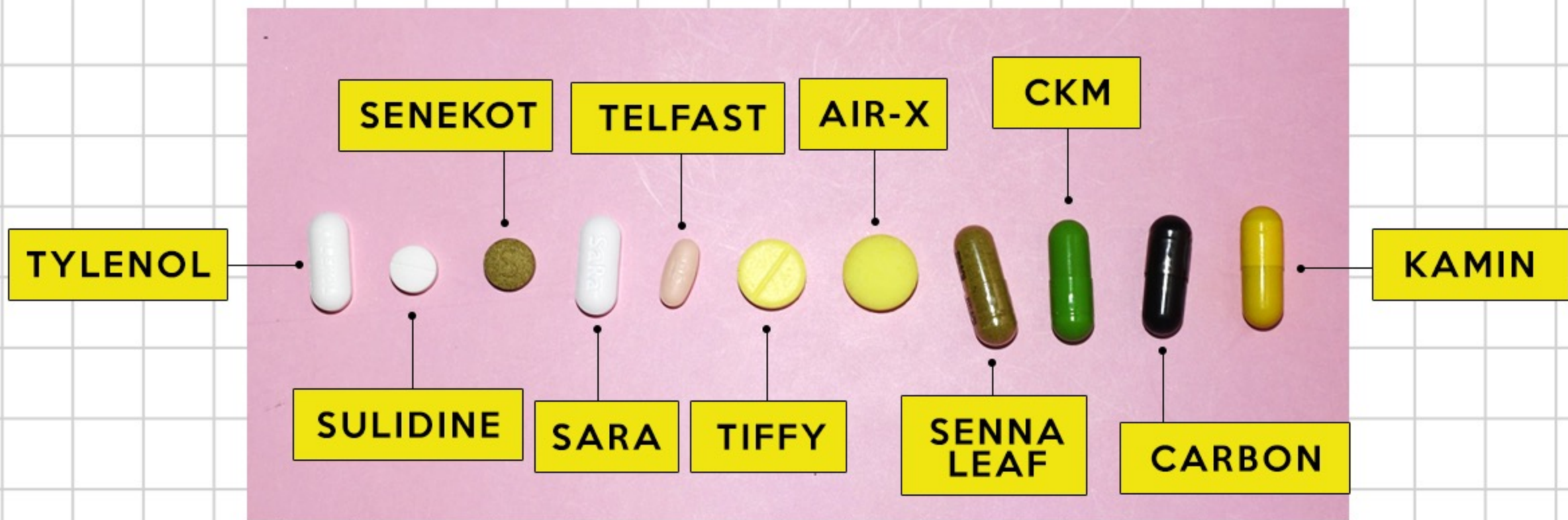
PANADDA LUCKANANUKUL



OBJECTIVES

HELP PEOPLE IDENTIFY DRUG'S TYPE AND
EFFECT WITHOUT SEEKING PHARMACIST



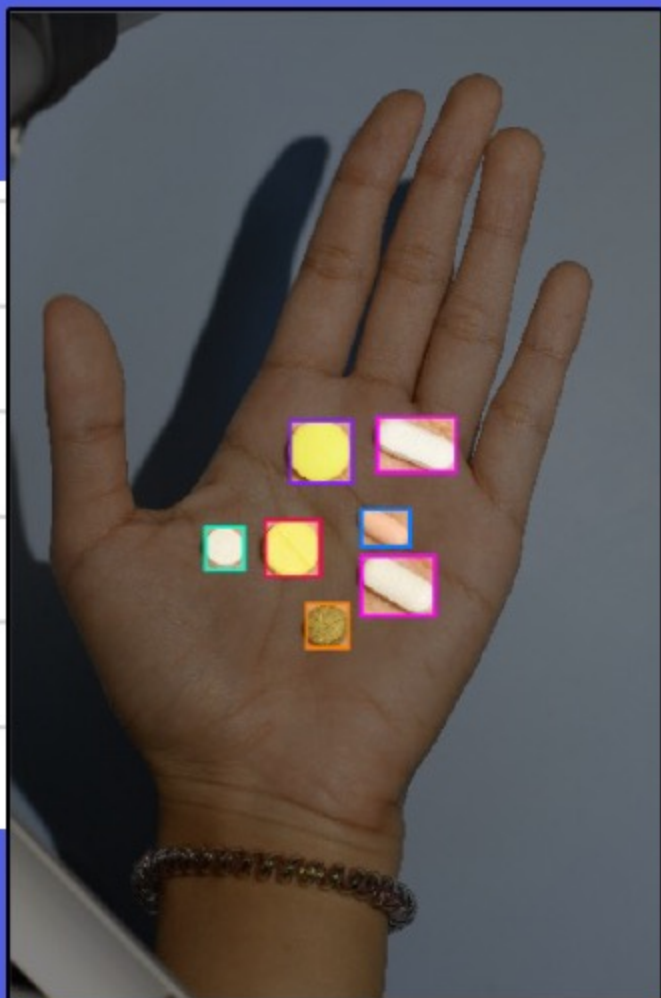


GATHER DATA *





LABELLED DATA



Annotations

Group: drugs

● airx	1
● paracetamol	2
● senokot	1
● sulidine	1
● telfast	1
● tiffy	1



AI TECHNI- QUES



YOLOv5s MODEL

**USE CUSTOM DATASET WITH
PRETRAINED WEIGHTS**

TRAIN VALIDATE TEST METHOD

**USE GOOGLE COLAB TO TRAIN OUR
MODEL**



**TRAINING
VALIDATION
TESTING SETS**

TOTAL IMAGE = 616 IMAGES

**TRAINING SET
540 IMAGES (88 %)**

**VALIDATION SET
51 IMAGES (8 %)**

**TESTING SET
25 IMAGE (4 %)**

TRAINING PARAMETER

IMG SIZE

416

BATCH SIZE

16

EPOCHS

300

MODEL

yolov5s



PRE-PROCESSING



RESIZE

REDUCED TO 640 X 480

AUGMENTATIONS

ROTATION

BETWEEN -45 AND +45

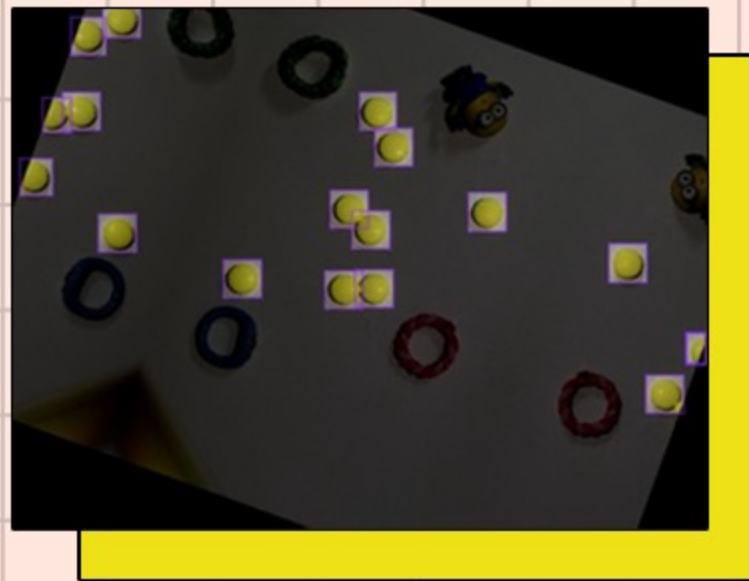
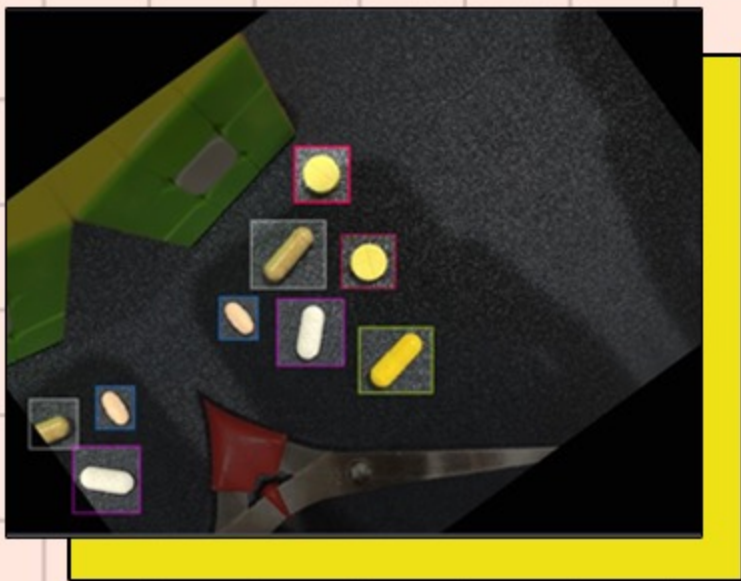
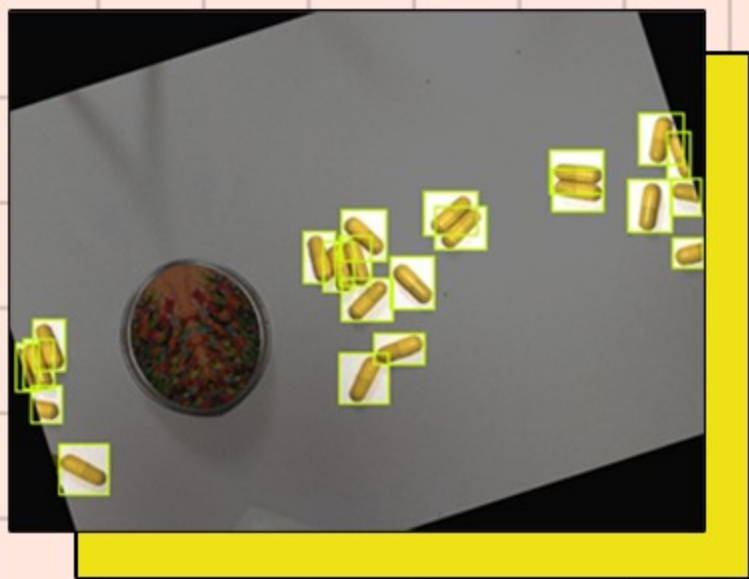
BRIGHTNESS

BETWEEN -20% AND +20%

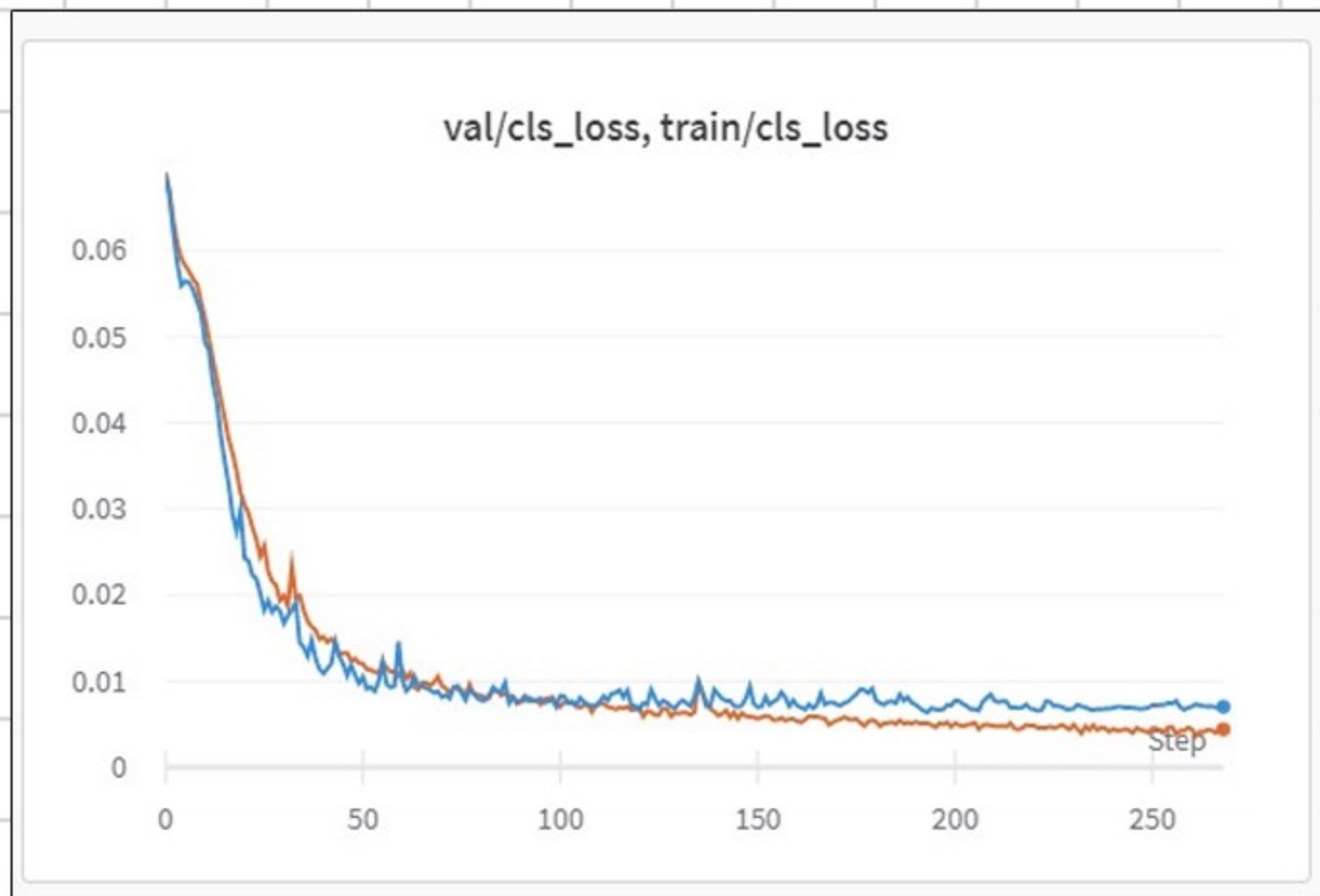
EXPOSURE

BETWEEN -25% AND +25%

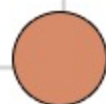
TRAINING DATA



LOSS GRAPH

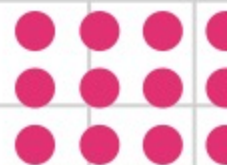
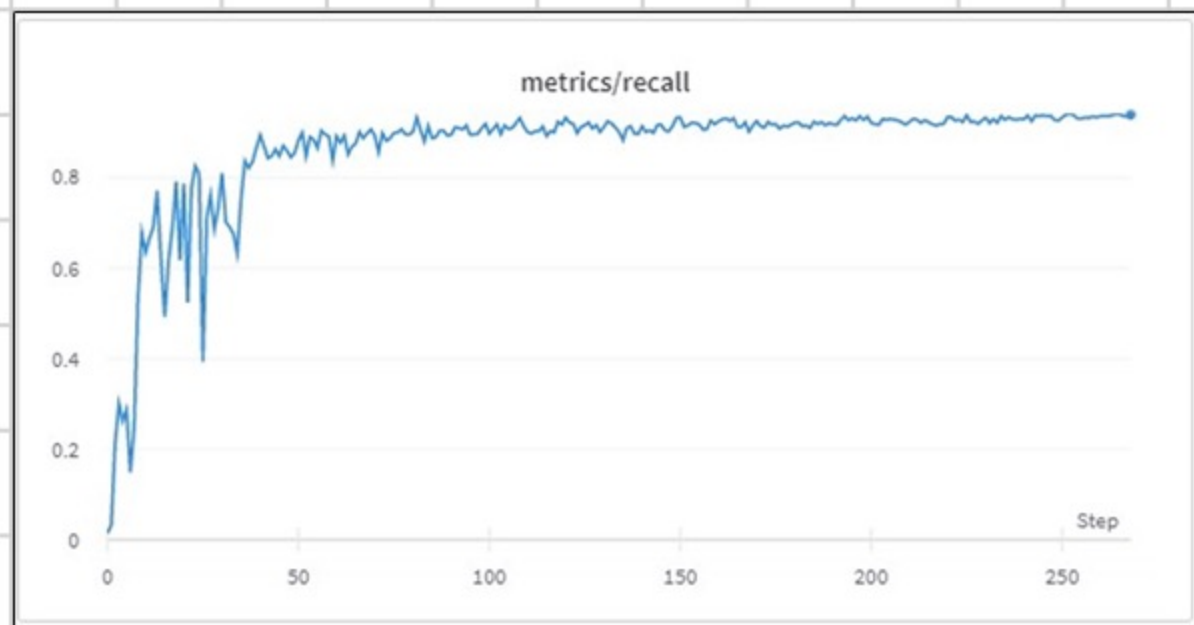
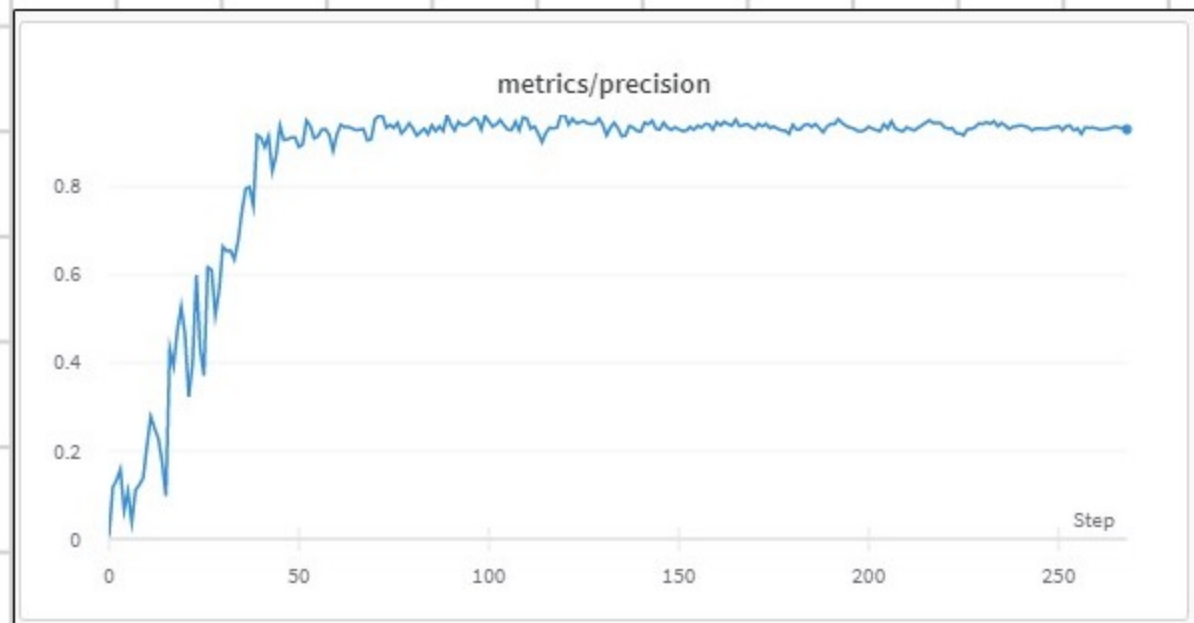


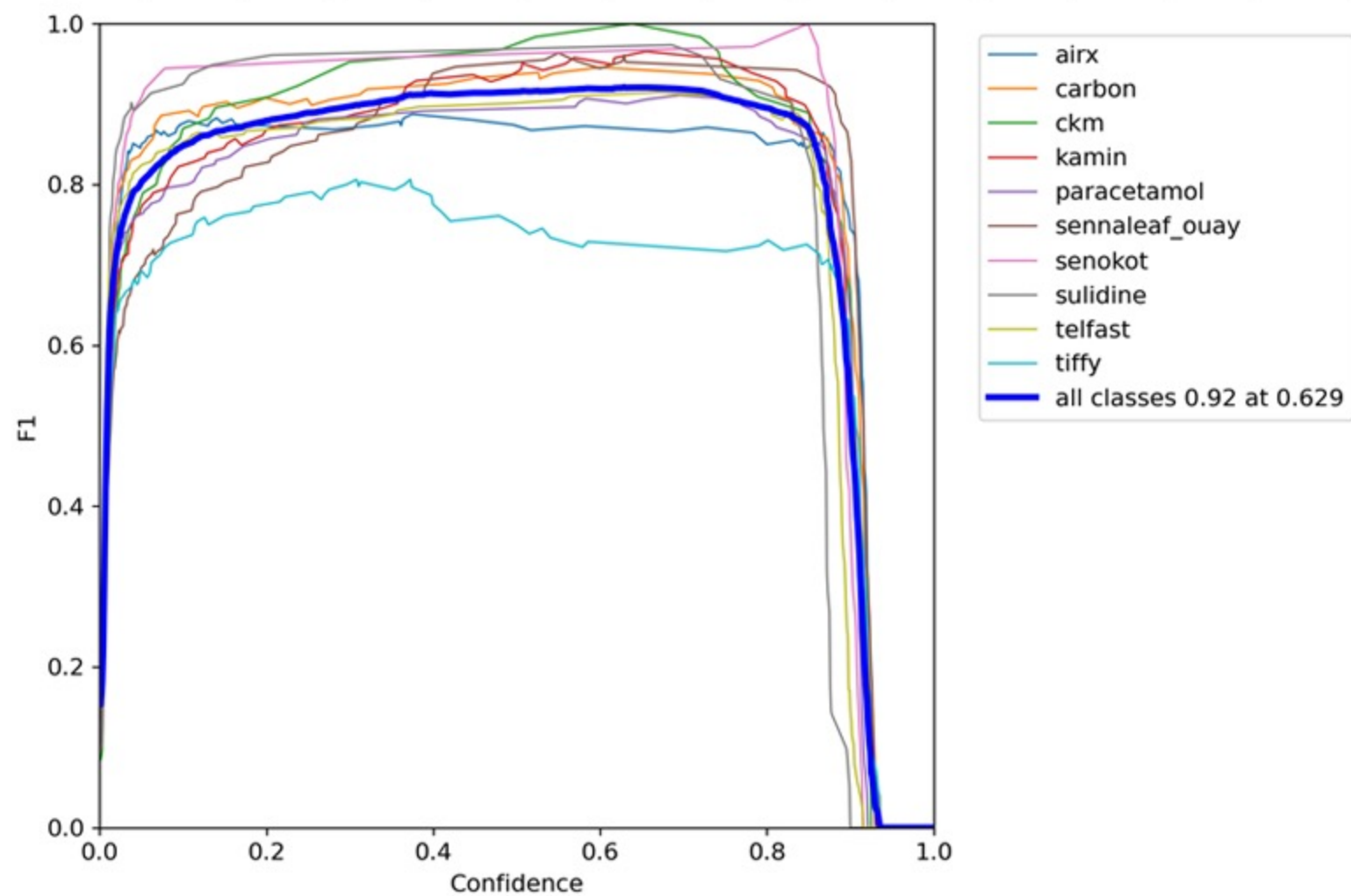
VAL



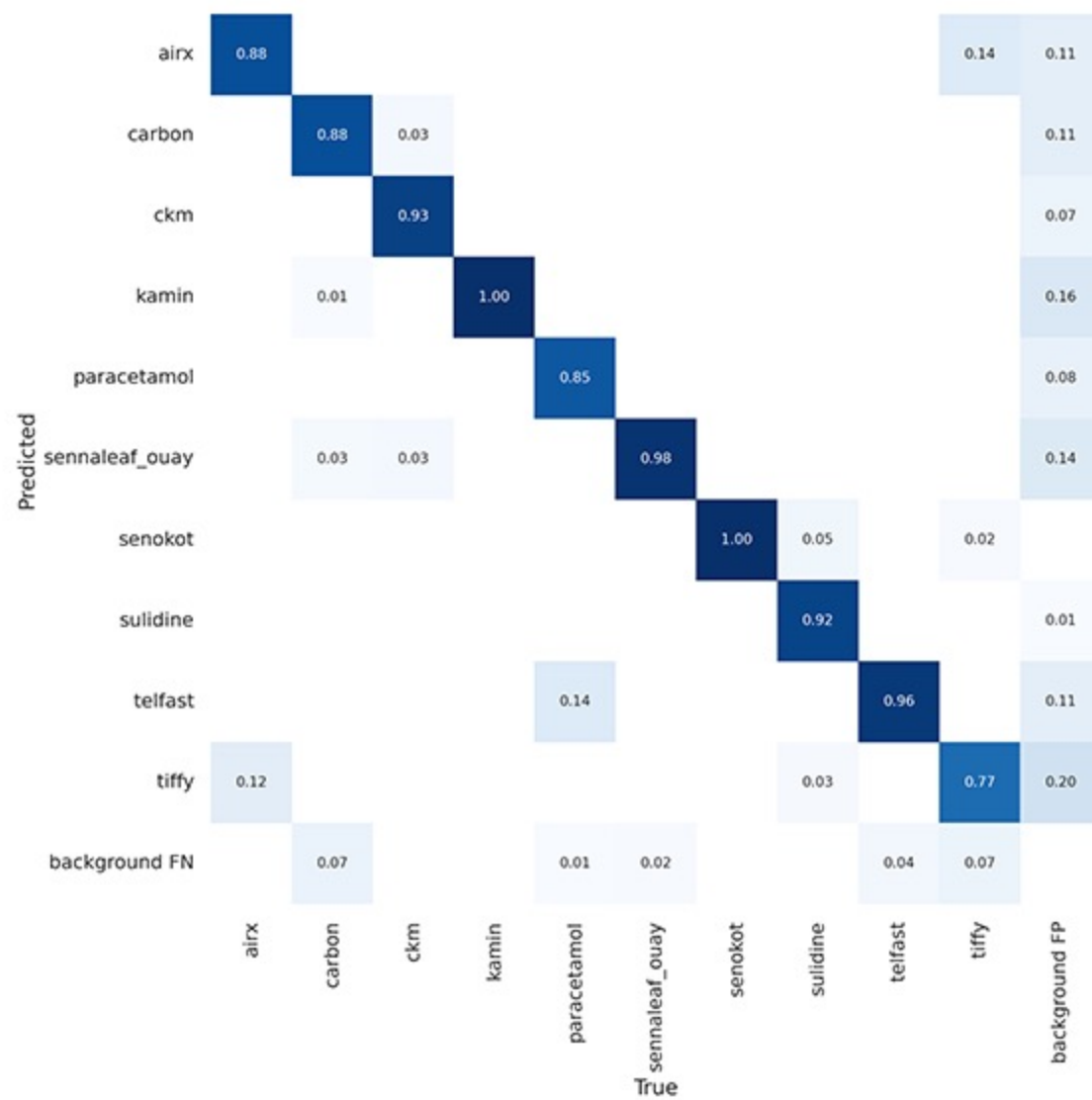
TRAINING

PRECISION / RECALL





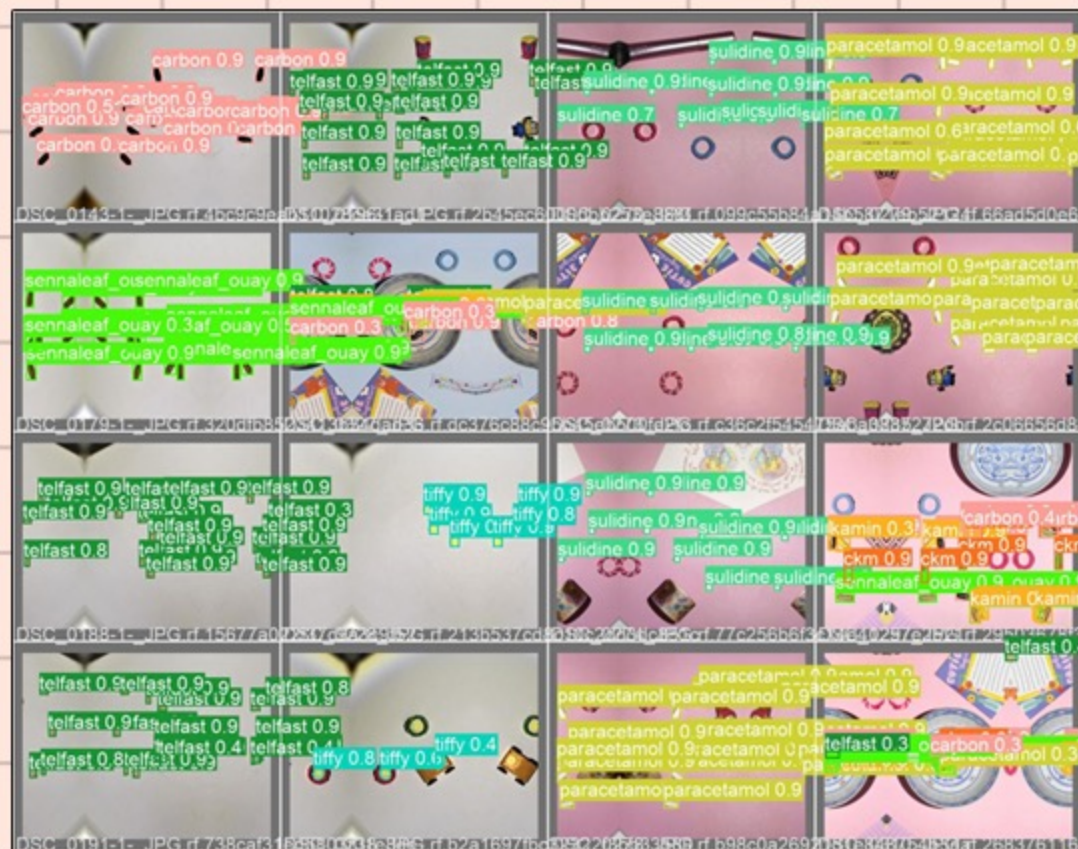
CONFUSION MATRIX



VALIDATION

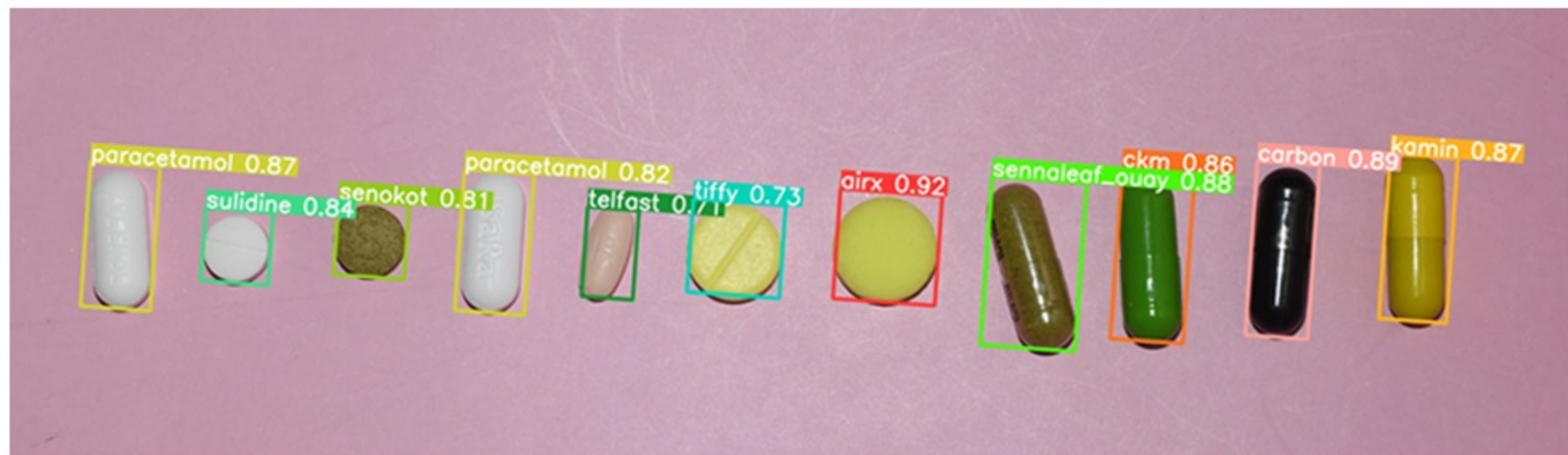


LABEL

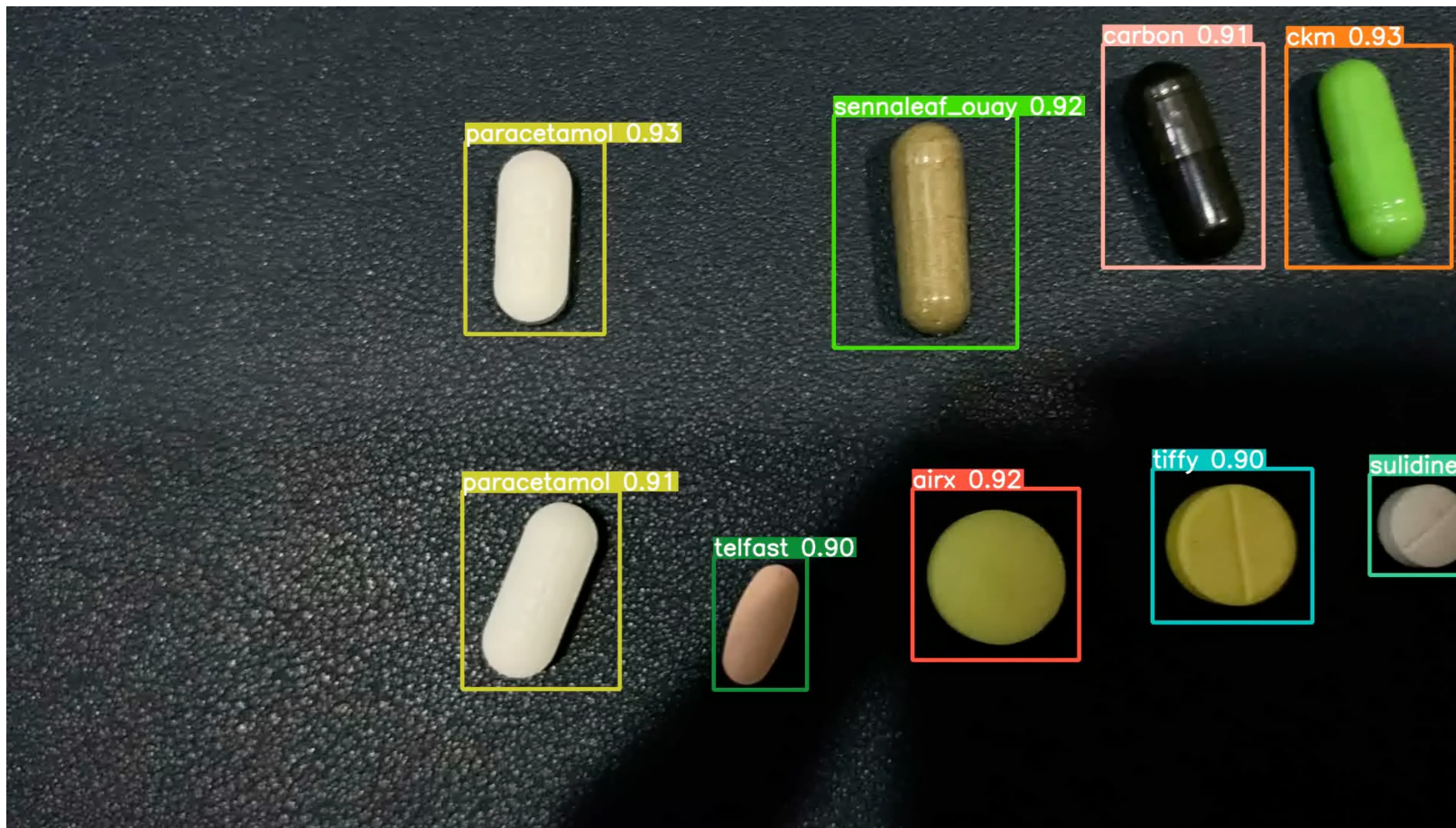


PREDICT

RESULT



RESULT



WEEK
1

PROJECT PROPOSAL

WEEK
2

GATHER / LABEL
DATASET

WEEK
3

TRAIN MODEL



WEEK
4

TEST MODEL

WEEK
5

FINE TUNING MODEL

***TIME
planning***



THANK
THANK
YOU *