LABELLING

Installing

<https://www.youtube.com/watch?v=1d7u8wTmA80>

labelling repo : <https://github.com/tzutalin/labelImg#labelimg>

conda install pyqt=5

conda install -c anaconda lxml

pyrcc5 -o libs/resources.py resources.qrc

python labelImg.py

python labelImg.py [IMAGE\_PATH] [PRE-DEFINED CLASS FILE]

darknet cnn layers: <https://pjreddie.com/darknet/yolo/>

!darknet/darknet detector train custom\_data/labelled\_data.data darknet/cfg/yolov3\_custom.cfg custom\_weight/darknet53.conv.74 -dont\_show

!darknet/darknet

Testing

<https://www.mygreatlearning.com/blog/yolo-object-detection-using-opencv/>

DAY 1

Machine learning – how dumb are machines? - 5mins

Neural Network – video - 8mins

NN Code – 15mins + 2 buffer

Process – collecting data, labelling data, select a NN architecture, pre-process the data, creating model/weights file, test the model file – 5mins

What is yolo? How it works? 3mins

YoLo – labelling 10mins

YoLo- training 45mins

YoLo- testing 15mins

Session wrap 5mins

DAY 2

Brief about the event

Pre-trained model : ML-Kit – Image labelling model

Google lens main kaise kaam karta hai – 15mins

Starting off with studio

Explain xml and java files

Firebase integration

Basic xml file

MainActivity.java

searchRVmodel.java

APIs (serpapi, Postman) – 15mins