CROWD VISION

Team : Lannisters

Team Members

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Problem

People going to cities have a hard time finding which place is the most suitable and less crowded for them to stay and spend time

Idea

To monitor crowd in public place to get the exact number of people present in that area at any time Suggest the most suitable places to people traveling from rural area

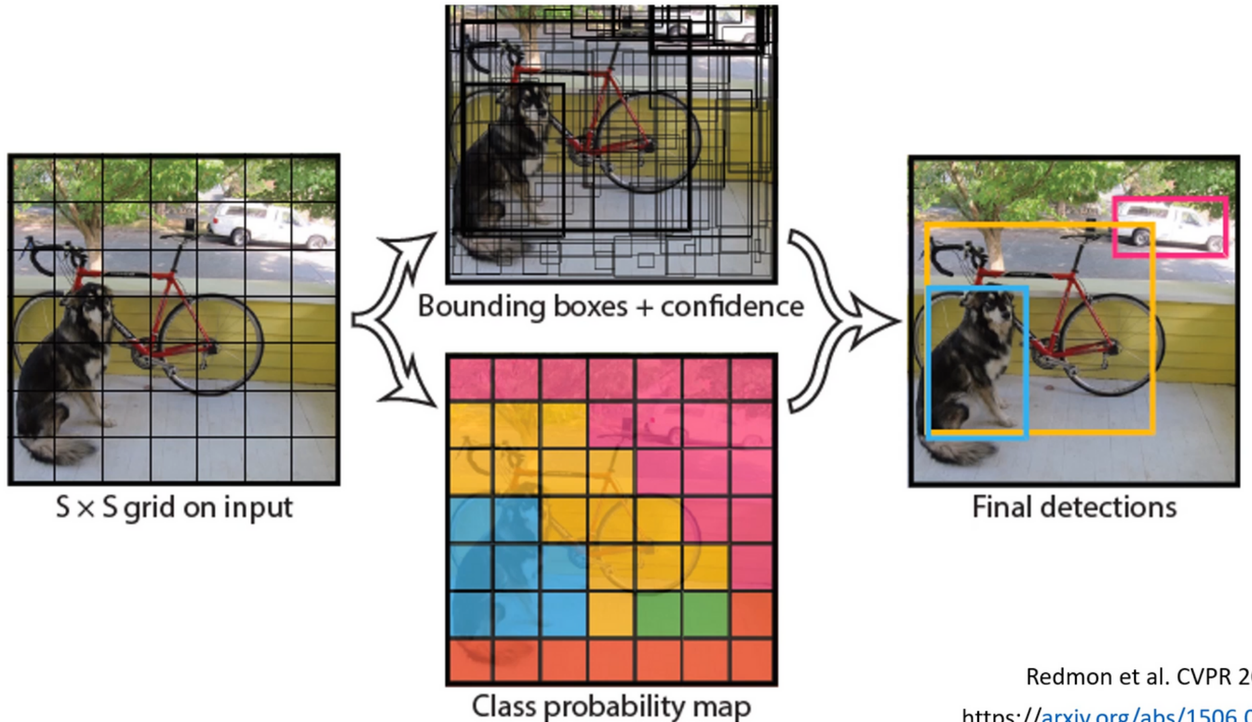
How it Works ?

- Live feed from the cameras is processed by using Computer Vision technology, which is using trained models

- From the processed data the live count of the people is shown

YOLOv5

YOLO are one-stage (Which involves only one stage throughout the detection) detectors, there are also two-stage detectors like R-CNN, fast R-CNN and faster R-CNN which are medium accurate but slow.



Redmon et al. CVPR 2016.

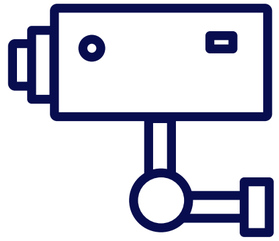
https://arxiv.org/abs/1506.0264

Advantages of our System

YOLOV5 is optimal for object detection tasks because the network lies on the Pareto optimality curve of the AP(accuracy) / FPS(speed)

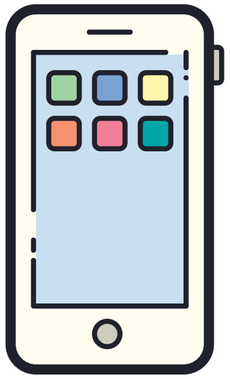
YOLOv5 requires 5 times less expensive equipment and yet is more accurate than EfficientDet-D2 (Google-TensorFlow).

Independent Installation



FIREBASE CLOUD

SYSTEM WITH CCTV



REACT NATIVE

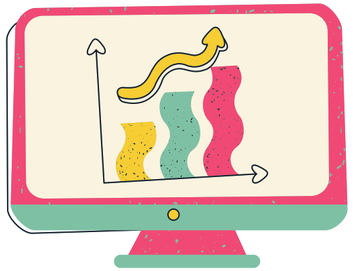
MAPS API

YOLO V4

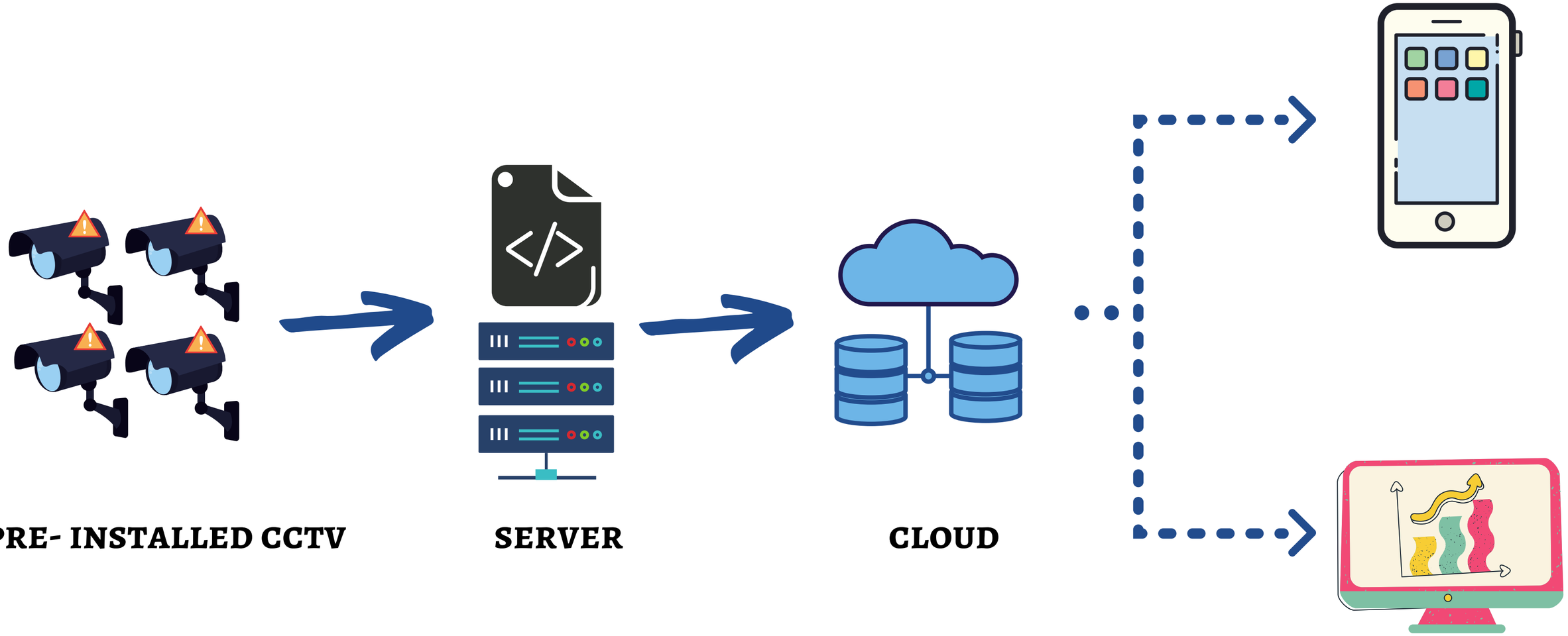
OPEN CV

PYTHON

TENSERFLOW



Upgrading Existing Installation



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