Datasets:

1. Detect fruits

https://www.kaggle.com/mbkinaci/fruit-images-for-object-detection

2. Detect animals

https://www.kaggle.com/antoreepjana/animals-detection-images-dataset/code

3. VOC 2007 Dataset

https://paperswithcode.com/dataset/pascal-voc-2007

4. Detect vehicles

https://www.kaggle.com/c/3d-object-detection-for-autonomous-vehicles/data

5. Detect blood cells

https://www.kaggle.com/draaslan/blood-cell-detection-dataset/code

6. Detect football

https://www.kaggle.com/mlwhiz/detection-footballvscricketball

Algorithms:

1) R-FCN

https://paperswithcode.com/method/r-fcn

https://github.com/daijifeng001/r-fcn

2) YOLO v5

https://towardsdatascience.com/how-to-train-a-custom-object-detection-model-with-yolo-v5-917e9ce13208

https://blog.roboflow.com/how-to-train-yolov5-on-a-custom-dataset/?ref=ultralytics

https://towardsdatascience.com/how-to-create-an-end-to-end-object-detector-using-yolov5-35fbb1a02810

3) SSD

https://medium.com/featurepreneur/object-detection-using-single-shot-multibox-detection-ssd-and-opencvs-deep-neural-network-dnn-d983e9d52652

https://towardsdatascience.com/implementing-ssd-in-keras-part-i-network-structure-da3323f11cff

4) UNET

https://towardsdatascience.com/understanding-semantic-segmentation-with-unet-6be4f42d4b47

https://github.com/hlamba28/UNET-TGS/blob/master/TGS%20UNET.ipynb

https://github.com/asimonov/CarND-VehicleDetection-Unet