

Object detection using Open CV and YOLO

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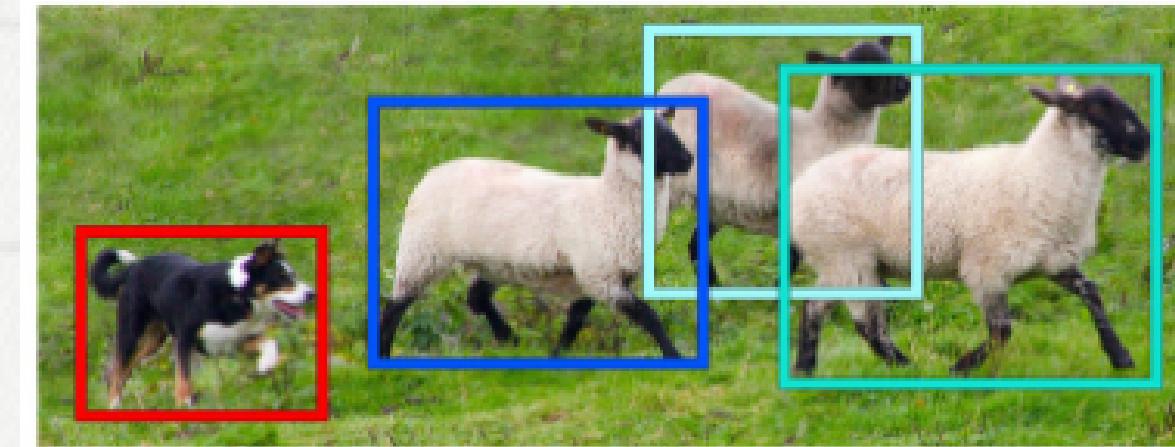
Object detection

Object detection is a technique used in computer vision for the identification and location of objects within an image or a video.

OpenCV: A free and open-source library of programming functions mainly for real-time computer vision.



Image Recognition



Object Detection

YOLO

You Only Look Once (YOLO)

YOLO is an algorithm that performs object detection and classification simultaneously.

- High performance and precision
- Speed
- Generalizes well
- Open-source

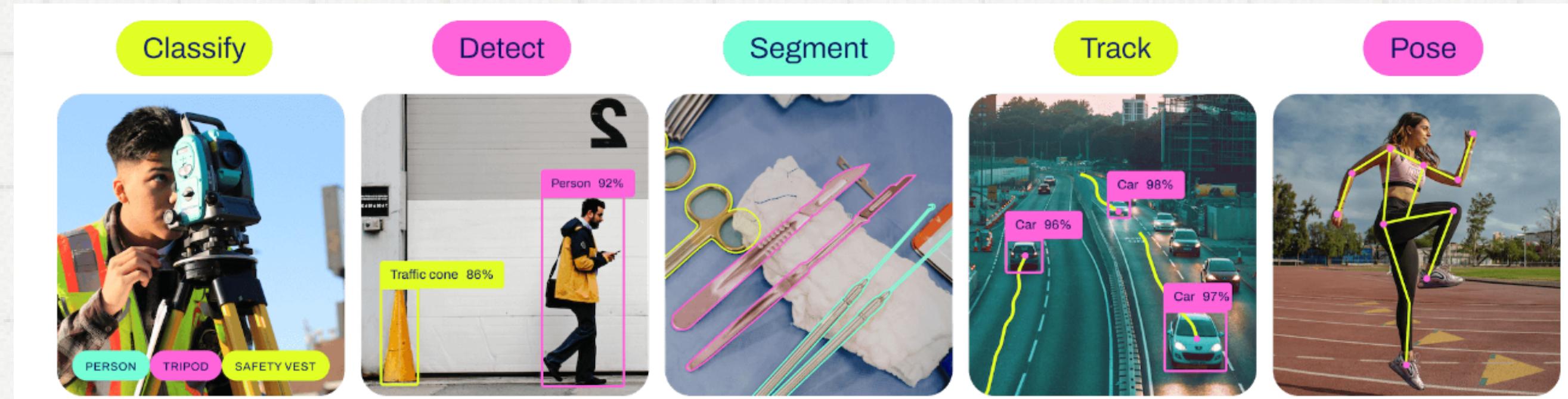


History

Released in 2015 by Joseph Redmon, Santosh Divvala, Ross Girshick, and Ali Farhadi in their paper titled "You Only Look Once: Unified, Real-Time Object Detection."

YOLO represented a significant advancement in the field of object detection, particularly in terms of speed and accuracy.

Image below explains YOLOv8





Applications

- Autonomous vehicles.
- Video surveillance.
- Automobile traffic management .
- Detection of anomalies or specific objects in medical images such as x-rays, MRIs or CT scans.

Conclusion Questions

**Thank you
very much!**

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