



# YOLOv4 TRAINERS

OBJECT DETECTION

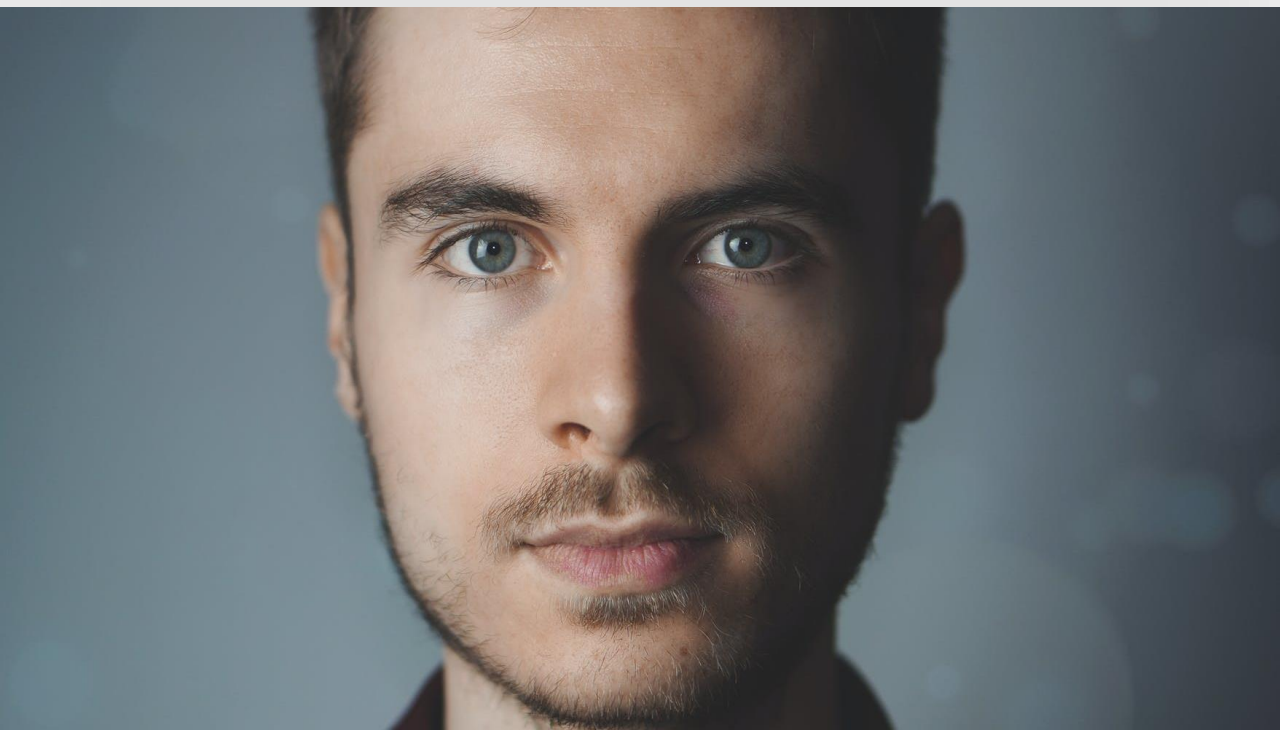
MODULE 3 – DATA ANNOTATION

COURSE

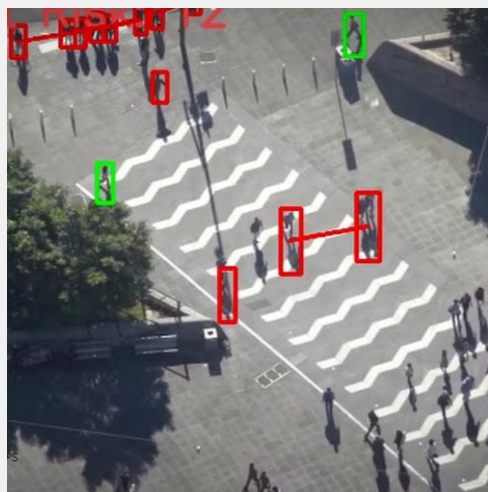
**MASK**



**NO MASK**

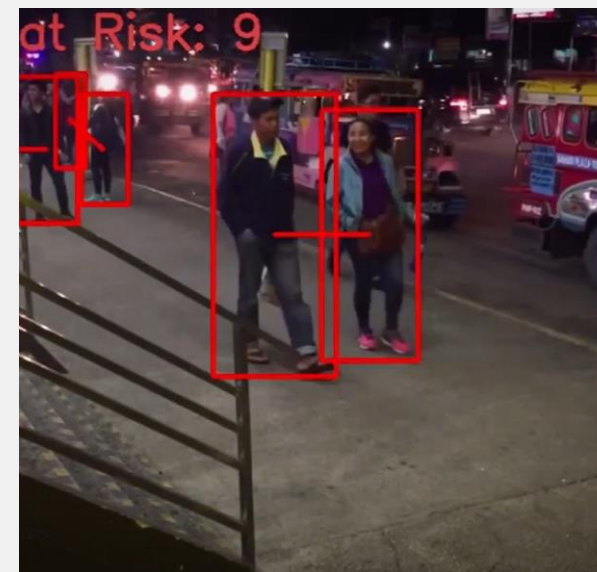
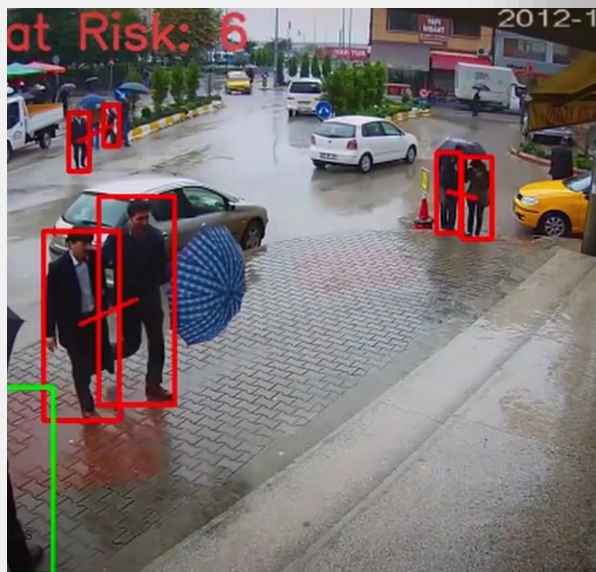






Social Distancing  
Monitoring App

YOLOv4 Starters  
**BUNDLE.**







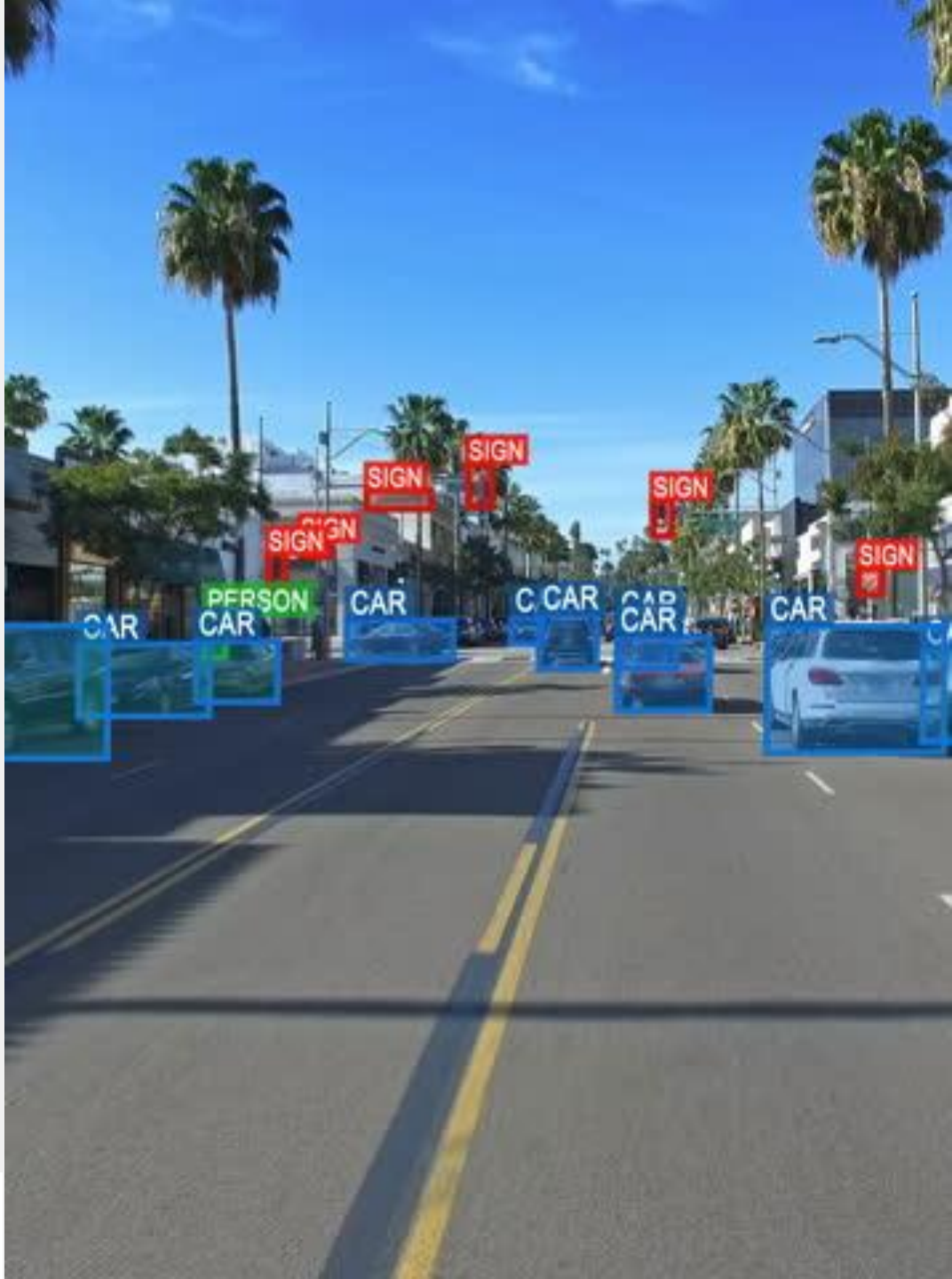


01. Introduction to Data annotation
02. YOLOv4 format for Image Labelling
03. YOLOv4 Labelling Tools
04. Web scaping Images
05. Annotating Images with Labelling
06. Labelling on Video using Labelling
07. Labelling on Video using DarkLabel
08. Annotation Summary



# Types of Annotation

Classification	Object Detection	Semantic Segmentation	Instance Segmentation
			
<ul style="list-style-type: none"><li>✓ Presence</li><li>✗ Location</li><li>✗ Count</li><li>✗ Size</li><li>✗ Shape</li></ul>	<ul style="list-style-type: none"><li>✓ Presence</li><li>✓ Location</li><li>✓ Count</li><li>✗ Size</li><li>✗ Shape</li></ul>	<ul style="list-style-type: none"><li>✓ Presence</li><li>✓ Location</li><li>✗ Count</li><li>○ Size</li><li>○ Shape</li></ul>	<ul style="list-style-type: none"><li>✓ Presence</li><li>✓ Location</li><li>✓ Count</li><li>✓ Size</li><li>✓ Shape</li></ul>
<p>OUTPUT</p> <p>Banana exists: Yes / No</p>	<p>OUTPUT</p> <p>There are 4 bananas</p>	<p>OUTPUT</p> <p>There is banana in these pixels</p>	<p>OUTPUT</p> <p>There are 4 bananas of this shape, size and grade</p>



# YOLOv4 Annotation

1

Label Images & Video

2

Web-scaping Data

3

Semi-Automated Video Labeling