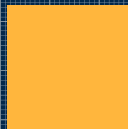
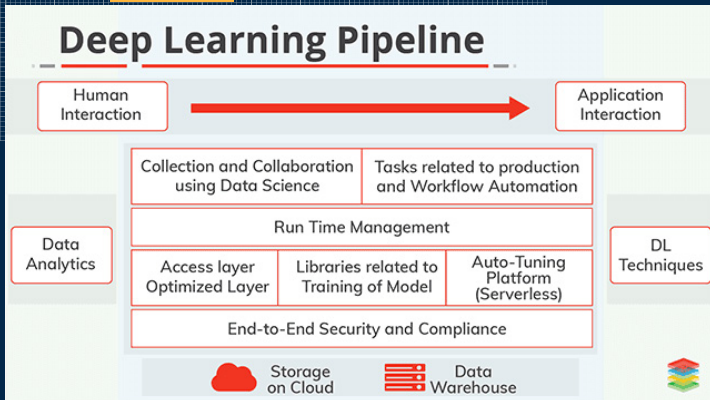


# Internship Project



Building an AI pipeline for Image Segmentation and Object Analysis



# Segmentation and Object detection



## Image Segmentation

Processing the  
boundaries of  
detected objects to  
separate them from other classes



While we have various  
options:

I chose

YOLO model (You Only Look Once)

## Object detection

Processing of detecting different objects of different  
classes from one image

# After detections

1. Detecting texts
2. Asking AI for summary
3. Generating a final output

Detecting text using EasyOCR

Asking GPT-3.5 Turbo to act as an summarization model

Generating a final output using Matplotlib, and Pandas



'50 40',  
'बसरुरकर मार्किट  
BASRURKAR MARKET',  
'SPEED LIMIT'



	id	img_id	img_path	img_size	img_type	img_name	confidence	id	img_size
0	img_001	img_001.jpg	[100, 100, 100, 100]	person	0.5	0	[100, 100, 100, 100]		
1	img_002	img_002.jpg	[100, 100, 100, 100]	person	0.6	1	[100, 100, 100, 100]		
2	img_003	img_003.jpg	[100, 100, 100, 100]	person	0.7	2	[100, 100, 100, 100]		
3	img_004	img_004.jpg	[100, 100, 100, 100]	person	0.8	3	[100, 100, 100, 100]		
4	img_005	img_005.jpg	[100, 100, 100, 100]	person	0.9	4	[100, 100, 100, 100]		
5	img_006	img_006.jpg	[100, 100, 100, 100]	person	1.0	5	[100, 100, 100, 100]		
6	img_007	img_007.jpg	[100, 100, 100, 100]	person	0.5	6	[100, 100, 100, 100]		
7	img_008	img_008.jpg	[100, 100, 100, 100]	person	0.6	7	[100, 100, 100, 100]		
8	img_009	img_009.jpg	[100, 100, 100, 100]	person	0.7	8	[100, 100, 100, 100]		
9	img_010	img_010.jpg	[100, 100, 100, 100]	person	0.8	9	[100, 100, 100, 100]		

- Object 0: Identified as a person with a confidence of 0.5  
- Object 1: Identified as a person with a confidence of 0.6  
- Object 2: Identified as a person with a confidence of 0.7  
- Object 3: Identified as a person with a confidence of 0.5  
- Object 4: Identified as a person with a confidence of 0.5  
- Object 5: Identified as a person with a confidence of 0.5



**Thank You!**  
For giving me the  
opportunity