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2)	Implement a Classifier using an open-source dataset	7/8/2025	} Signature 11/8/25
3)	Study of Classifiers with respect to Statistical Parameter	7/8/2025	
4)	Build a simple feed forward network to recognize handwritten character	14/8/2025	} Signature 14/8/25
5)	Study of Activation Functions and its role	9/9/2025	P 9/9
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10)	Perform compression on MNIST	} 02/11/25	} Signature
11)	Experiment using VAE		
12)	Implement a DCGAN		
13)	Understand pre-trained model		
14)	Transfer Learning		
15)	YOLO Model		

Completed
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11/11/25

Exp-15 - Object Detection using YOLO

Aim:

To implement a YOLO model for detecting objects in an image.

Objectives:

To understand and apply real-time object detection using a pre-trained YOLOv5 model.

Algorithm:

- 1) Install and import YOLOv5 model from torch.hub
- 2) Load pre-trained YOLOv5 weights.
- 3) Perform inference on sample image.
- 4) Display detection results.

Observation:

The YOLO model successfully detects multiple objects with bounding boxes & labels.

Result:

The model was successfully implemented.

Downloading YOLOv5 model
Model loaded successfully.

Detecting objects in image: zidane.jpg

Results:

person (0.98)

Football (0.93)

person (0.95)

Average confidence: 95%