

Serial. No.	Topic.	Date.	Signature
1)	Exploring the Deep Learning Platforms & Frameworks	31/07/2025	<del>Off</del>
2)	Implement a Classifier using an open-source dataset	7/8/2025	<del>Off</del>
3)	Study of Classifiers with respect to statistical Parameter	7/8/2025	<del>Off</del> 1/3/8/25
4)	Build a simple feed forward network to recognize handwritten character	14/8/2025	<del>Off</del> 14/8/25
5)	Study of Activation Functions and its role	9/9/2025	<del>Off</del> 9/9
6)	Implement gradient descent and backpropagation in deep neural network.	13/9/2025	<del>Off</del>
7)	Build a CNN model to classify Cat & dog image	13/9/2025	<del>Off</del>
8)	Experiment using LSTM	13/9/2025	<del>Off</del>
9)	Build a Recurrent Neural Network	13/9/2025	<del>Off</del> 13/9/25
10)	Perform compression on MNIST		
11)	Experiment using VAE		
12)	Implement a DCGAN	02/11/25	<del>Off</del>
13)	Understand pre-trained model		
14)	Transfer Learning		
15)	YOLO Model		

~~Completed~~

# 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: 85%