

# School of Computer Science Engineering and Technology

Course-B. Tech	Type- General Elective
Course Code- CSET-335	Course Name- Deep Learning
Year- 2024	Semester- Even
Date- 15/04/2024	Batch- 2023-2024

## CO-Mapping

Exp. No.	Name	CO1	CO2	CO3
08	To create a pipeline for training, testing and inference for detection	✓	✓	-✓ -

## Objectives

CO1: To explain the fundamentals of deep learning, Convolution neural network.

CO2: To articulate different problem of classification, detection, segmentation, generation and understand existing solutions/ deep learning architectures.

CO3: To implement a solution for the given problem and improve it using various methods transfer learning, hyperparameter optimization.

## Assignment-8

**Goal: To create a pipeline for training, testing and inference for detection**

For the models mentioned below, create a pipeline for training and testing on the mask wearing data set.

**Data set:** Mask wearing data set (<https://public.roboflow.com/object-detection/mask-wearing>)

**Models:** YOLO5, Faster RCNN

Help:

RCNN: <https://arxiv.org/abs/1506.01497>

YOLO: <https://ultralytics.com/yolov5>