## **School of Computer Science Engineering and Technology**

Course-B. Tech	Type- General Elective
Course Code- CSET-335	Course Name- Deep Leaning
Year- 2024	Semester- Even
<b>Date-</b> 26/04/2024	Batch- 2023-2024

#### **CO-Mapping**

Exp. No.	Name	CO1	CO2	CO3
10	To invalence and Mode	<b>✓</b>	<b>✓</b>	- <b>~</b> -
	To implement Mask			
	RCNN for image			
	segmentation			

### **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-10

# Objective: Task is to implement Mask RCNN for image segmentation

Use the Mask R-CNN architecture and the pretrained weights (trained on MS COCO data set) to generate predictions for our own images (10 images from the below data set).

**Data set:** Blood cell data set

https://www.kaggle.com/datasets/paultimothymooney/blood-cells

Model: Mask RCNN

**Help:** <a href="https://www.analyticsvidhya.com/blog/2019/07/computer-vision-implementing-mask-r-cnn-image-segmentation/">https://www.analyticsvidhya.com/blog/2019/07/computer-vision-implementing-mask-r-cnn-image-segmentation/</a>

https://github.com/rajkifranciska/maskrcnn-from-scratch/blob/master/MaskrCNN.ipynb