**COURSE:** DSA4050

**COURSE TITLE:** Deep Learning for Computer Vision

**INSTRUCTOR:** DR. EDWARD OMBUI

**Week 5: Laboratory Assignment**

**Task:** Train an object detection model on a given dataset and evaluate its performance. Compare its performance with other models trained on the dataset. [30M]

**Steps:**

1. Choose a dataset (e.g., COCO, PASCAL VOC, or a custom dataset).
2. Select an object detection framework (e.g., Faster R-CNN, YOLO).
3. Train the model and optimize hyperparameters.
4. Evaluate using precision, recall, and mAP.
5. Compare performance with another model.

📌 **Deliverables:**

* Trained model files
* Performance evaluation report
* Comparison with at least one other object detection model