**Teamname: Coders++**

**Problem Statement: Advanced Object Detection in images**

**Instructions:**

1. We recommend running it on Google Colab.

2. Moreover, you can implement it in local machine consisting of GPU. (you have to install relevant versions)

**File: Coders++\_ObjectDetection\_inGrid.ipynb**

1. This is our entire work done on the problem statement alone.

**File: Coders++\_ObjectDetection\_inLowResolution.ipynb**

1. This is our work done as per the first suggestion given by the Panel Members during the mentoring session.

2. Detection on low resolution images.

**File: Coders++\_ObjectDetection\_inVideo.ipynb**

1. This is our work done as per the second suggestion given by the Panel Members during the mentoring session.

2. Implementation of our model in real-time. (kindly go through the videos folder)

**File: Coders++\_ObjectDetection\_inGrid\_UI.ipynb**

1. This is our UI simulation *done* to demonstrate our working prototype.

* *We have uploaded our trained model (model\_final.pth) and the relevant configuration file (output.yaml).*
* *So predictions can be done directly by utilizing those two files as demonstrated in attached code files.*