Project Name: **Object Detection**

Names and IDs of Group Members:

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Problem Definition:

Object detection is a technique for locating and classifying different objects present in an image/video. There are many algorithms developed and still developing in this field. We are looking to explore them and implement one of them.

List of Research Papers:

1) Towards Real-Time Multi-Object Tracking
   By: Zhongdao Wang, Liang Zheng, Yixuan Liu, Yali Li , and Shengjin Wang
   Link: https://arxiv.org/pdf/1909.12605v2.pdf

2) Simple Online and Realtime Tracking with a Deep Association Metric.
   By: Nicolai Wojke, Alex Bewley, Dietrich Paulus
   https://arxiv.org/pdf/1703.07402

3) You Only Look Once: Unified, Real-Time Object Detection
   By: Joseph Redmon , Santosh Divvala, Ross Girshick, Ali Farhadi
   https://arxiv.org/pdf/1506.02640v5.pdf

4) Mask R-CNN
   By : Kaiming He , Georgia Gkioxari , Piotr Dollar , Ross Girshick
   https://arxiv.org/pdf/1703.06870v3.pdf

5) Feature Pyramid Networks for Object Detection

   By: Tsung-Yi Lin, Piotr Dollár, Ross Girshick, Kaiming He, Bharath
   Hariharan, Serge Belongie ·
   https://arxiv.org/pdf/1612.03144v2.pdf