Multi Object Detection in Video

Name: Niranjan
Roll no.EE19B010
Department:Electrical

Name:Saketh Ram
Roll no. EE19B025
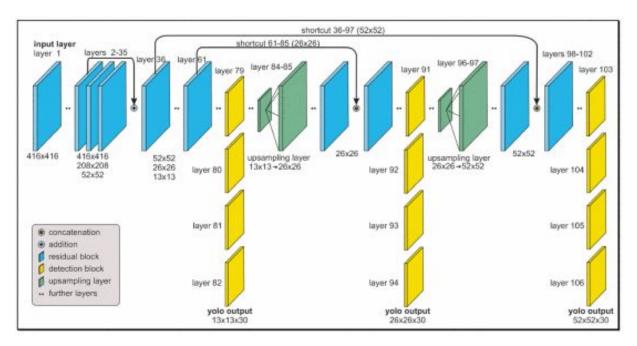Department: Electrical

INTRODUCTION

- The main goal of multi object tracking(MOT) is to follow paths or trajectories of multiple targets in a sequence.
- Multiple object tracking is a field of computer vision that has a wide range of applications, starting from video surveillance and human computer interaction to robotics.

ARCHITECTURE & LOSS FUNCTION

- YOLO Architecture

DATASET(S)

- Dataset - Google Open Images
- Input - 3 channel rgb image pixel intensities
- Ground truth- a vector of object probability, coordinates of the center pixels of object(x,y), width and height of the bounding box, class.

Future work : Timeline and Milestones in Mini project

Post processing of Yolo algorithm was done which are non max suppression, Converting the Output of the Model to Usable Bounding Box Tensor.