PROPOSALS FOR HELMET AND FACE MASK DETECTION MODEL

Workflow 1:

This proposal is a combination of a detector and a classifier, where first we create an object detector for head class and we then train a classifier probably a resnet-50 to classify mask, no\_mask, helmet, no\_helmet and assign the head class with respective attributes.

Workflow 2:

This proposal is a single object detector, where the data labels have to be preprocessed and the classes of head will be changed to h, hH, hM, hHM.

h -> HEAD

H -> HELMET

M -> MASK

Based on this we categorize the images and send them into a CNN model that will be chosen based on the requirement and available computation cost.