ABSTRACT

Face recognition or detection is a system that is continuously being developed for a broader search, from recognizing someone's face to becoming a security system later, here I want to develop recognizing the face of someone wearing a mask where the data is taken from the person wearing a mask and could detect the person even though his face is covered by a mask.

The method to be used uses the YOLOv4-tiny algorithm with the AlexeyAB method, where the YOLOv4-tiny algorithm can process faster than other Yolo version. For data collection, training data is used which has been processed in advance with several classes and variations

This Final Project mainly focus to be able to recognize someone's face even though wearing a mask with a level of accuracy. With the results of detecting masked faces by 98% and faces not using masks by 79% with an accuracy rate obtained of 84%

Keywords*: Face detection, YOLO, Mask, Confusion Matrix ,YOLOv4-**tiny***