



**PROJECT REPORT**  
**PERFORMANCE ANALYSIS OF SSD ALGORITHM**  
**FOR SOCIAL DISTANCE VIOLATION**

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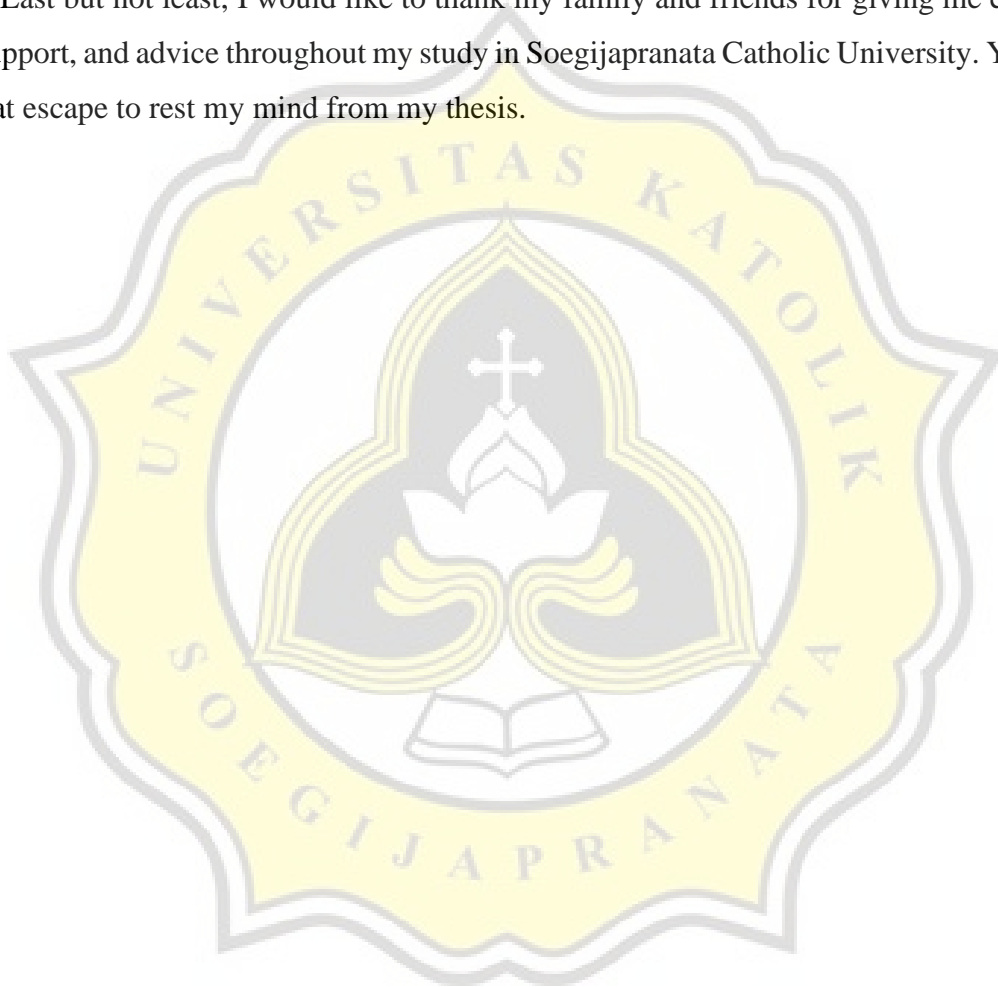
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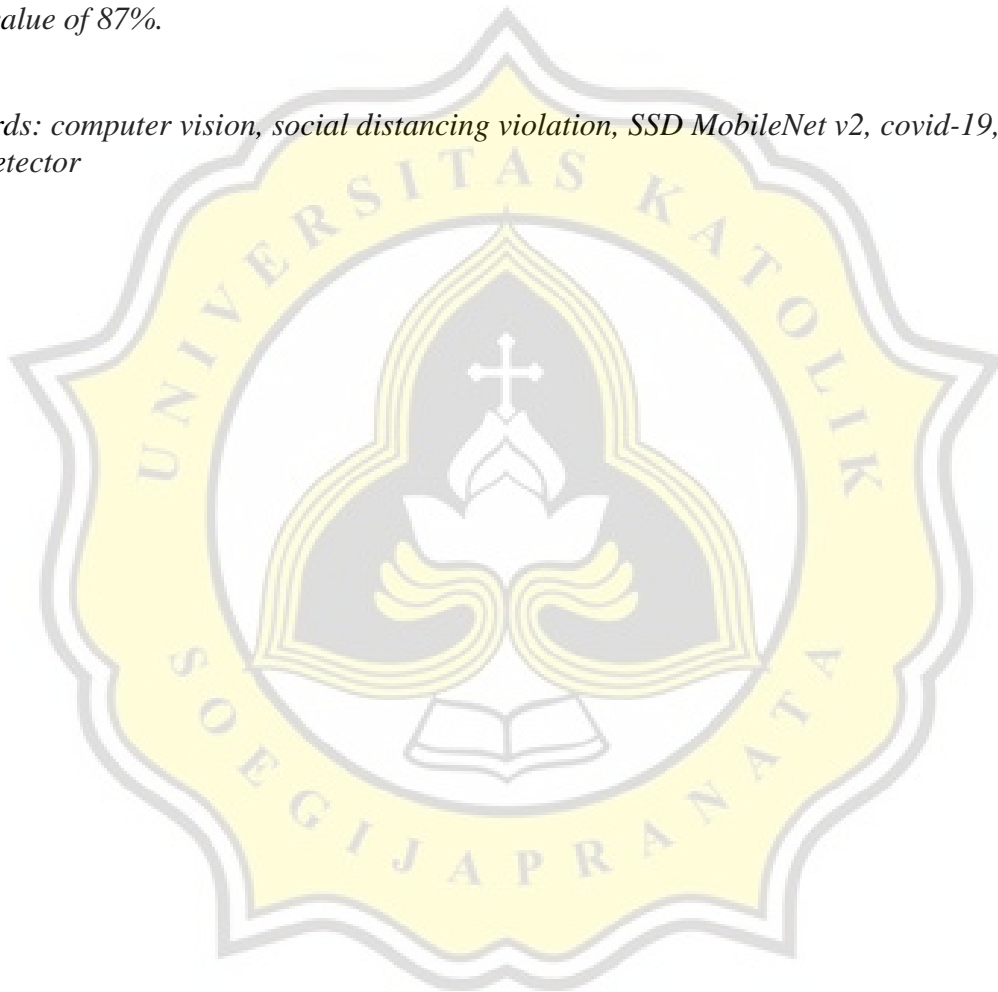
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## ABSTRACT

*The increase in the number of cases of transmission of Covid-19 has been a problem for many sectors. Many solutions have been attempted to prevent transmission. One of the solutions is to utilize computer vision technology to detect violations of health protocols such as social distancing violations. The use of computer vision to detect social distancing violations in this study was carried out by utilizing the NVIDIA Jetson Nano tool with the pre-trained SSD MobileNet V2 model obtained from the Tensorflow model zoo. The testing was carried out with the camera being parallel to objects within a room lighting and to evaluate the performance of the proposed system, the researcher used confusion matrix calculations. Based on research results, the utilization of the NVIDIA Jetson Nano with SSD MobileNet V2 model for the detection system gives an accuracy value of 88%, a precision value of 100%, and a recall value of 87%.*

*Keywords: computer vision, social distancing violation, SSD MobileNet v2, covid-19, Single Shot Detector*



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