# PROJECT REPORT

## COMPARISON OF NAÏVE BAYES AND SUPPORT VECTOR MACHINE (SVM) ALGORITHMS IN MASKED FACE DETECTION

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## APPROVAL AND RATIFICATION PAGE

| | | |
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declare that this work, titled "Comparison of Naïve Bayes and Support Vector Machine (SVM) Algorithms in Masked Face Detection", and the work presented in it is my own. I confirm that:

1. This work was done wholly or mainly while in candidature for a research degree at Soegijapranata Catholic University
2. Where any part of this thesis has previously been submitted for a degree or any other qualification at this University or any other institution, this has been clearly stated.
3. Where I have consulted the published work of others, this is always clearly attributed.
4. Where I have quoted from the work of others, the source is always given.
5. Except for such quotations, this work is entirely my own work.
6. I have acknowledged all main sources of help.
7. Where the work is based on work done by myself jointly with others, I have made clear exactly what was done by others and what I have contributed myself.

Semarang, December 19, 2022


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Yang menyatakan

Kezia Shienny Juliana Hertanto

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# ABSTRACT (ABSTRACT TITLE)

*Two machine learning methods that both process images will be compared in this study. The image of human face that wears a is an example of an object that will be used to process with Orange Data Mining software. The system will search through existing datasets using Machine Learning Naïve Bayes and Support Vector Machine (SVM) with image analytics. This research will find out which method is most accurate in detecting facial images of people wearing masks or not. According to the study's findings, the SVM approach can predict class instances accurately with an accuracy level of 1, which makes it more predictive than Naive Bayes.*

*Keyword: Orange Data Mining, Machine Learning, Face Mask, Detection*

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