



**PROJECT REPORT**  
**DIRECT DETECTION OF PEOPLE WEARING**  
**GLASSES USING THE HAARCASCADE CLASSIFIER**

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## ABSTRACT

*In this day and age, many people wear glasses to help their eyesight or to add style to make them look more attractive. In some places it is mandatory for someone not to wear glasses for certain reasons such as someone who goes to an ATM machine not to wear dark colored glasses so that his face can be seen clearly and is better known for security reasons. In this situation it is very important for some places to be able to detect a person wearing glasses using the camera directly for some reason in order to quickly recognize the person's face more clearly.*

*The haarcascade classification algorithm is an algorithm that can detect faces and eyes directly and quickly using a camera connected to a computer. The haarcascade that I use is the frontalface haarcascade to detect faces and the eye haarcascade to detect the eyes, and the results of the detection if the face and eyes are detected, it is certain that someone is not wearing glasses and vice versa if only a face is detected, it is certain that someone is wearing glasses. OpenCV to insert live video and processed by the library that we use.*

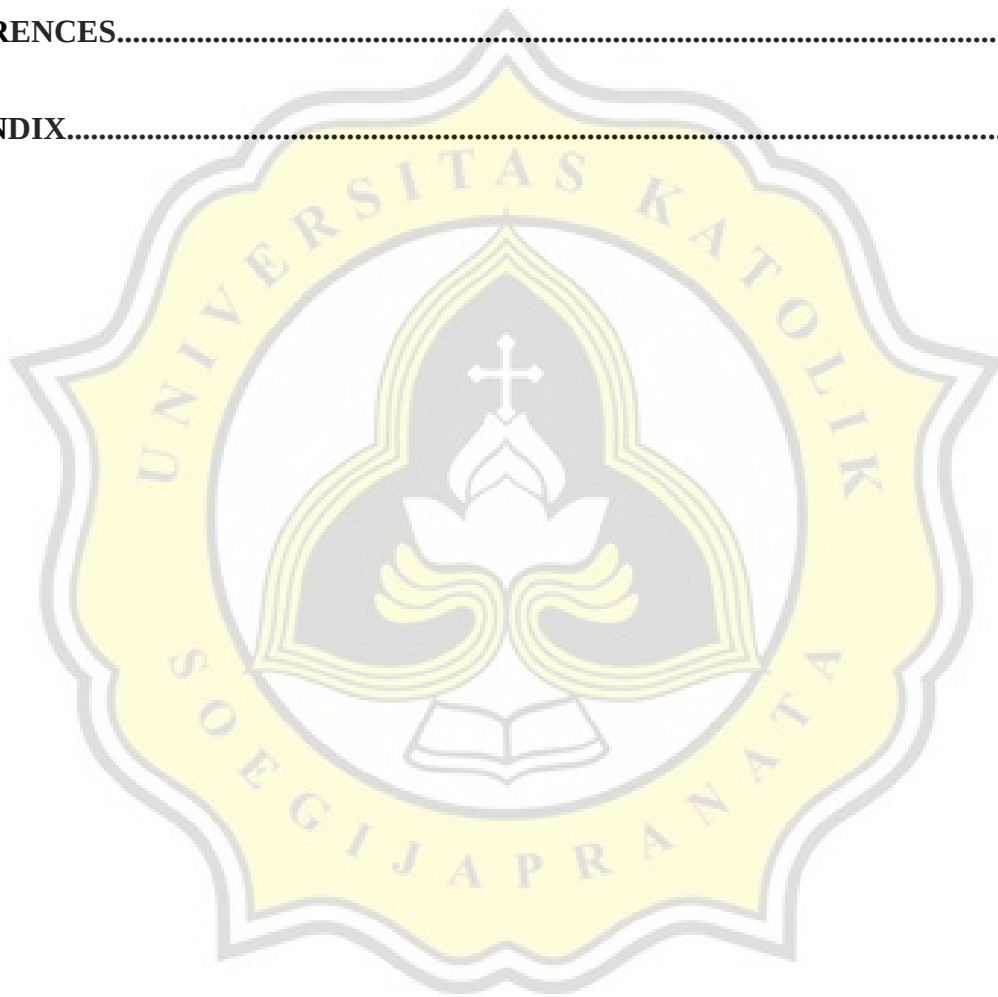
*The final result that we get in this project is an image that has been captured and has been run through a dataset, namely direct video input that has been processed using haarcascade frontalface and haarcascade eye and opencv. At the top of a person's face there will be a text that explains whether the person is wearing glasses or not, and can count the number of faces and eyes of a person recorded on the camera.*

*Keyword: Haarcascade Classifier, OpenCV, Live Video, Glasses*

## TABLE OF CONTENTS

APPROVAL AND RATIFICATION PAGE.....	ii
STATEMENT OF ORIGINALITY.....	iii
APPROVAL PAGE FOR PUBLICATION OF SCIENTIFIC PAPERS FOR ACADEMIC INTEREST.....	iv
ACKNOWLEDGMENT.....	v
ABSTRACT.....	vi
LIST OF FIGURE.....	ix
LIST OF TABLE.....	xi
CHAPTER 1 INTRODUCTION.....	1
1.1. Background.....	1
1.2. Problem Formulation.....	2
1.3. Scope.....	2
1.4. Objective.....	2
CHAPTER 2 LITERATURE STUDY.....	3
CHAPTER 3 RESEARCH METHODOLOGY.....	14
3.1. Put the dataset into the python notebook project folder.....	14
3.2. Importing CV2.....	16
3.3. Turn on the webcam.....	17
3.4. Change each frame to gray.....	18
3.5. Implementation of algorithms for face and eye detection.....	18
3.6. Implementation of the results of detecting someone using glasses.....	19
CHAPTER 4 ANALYSIS AND DESIGN.....	20

4.1. Analysis.....	20
4.2. Desain.....	25
<b>CHAPTER 5 IMPLEMENTATION AND RESULTS.....</b>	<b>28</b>
5.1. Implementation.....	28
5.2. Results.....	30
<b>CHAPTER 6 CONCLUSION.....</b>	<b>37</b>
<b>REFERENCES.....</b>	<b>39</b>
<b>APPENDIX.....</b>	<b>a</b>





## LIST OF FIGURE

<b>Gambar 3.1: Dataset Haarcascade_frontalface_default.xml.....</b>	<b>15</b>
<b>Gambar 3.2: Dataset Haarcascade_frontalface_default.xml rects.....</b>	<b>15</b>
<b>Gambar 3.3: Dataset Haarcascade_eye.xml.....</b>	<b>15</b>
<b>Gambar 3.4: Dataset Haarcascade_eye.xml rects.....</b>	<b>16</b>
<b>Gambar 3.5: OpenCV Basic Structure.....</b>	<b>16</b>
<b>Gambar 3.6: Dataset Implementation On OpenCV.....</b>	<b>17</b>
<b>Gambar 3.7: The Process Of Turning On The Webcam.....</b>	<b>18</b>
<b>Gambar 4.1: Haar-Like Feature.....</b>	<b>20</b>
<b>Gambar 4.2: Haarcascade Sub Window Formation.....</b>	<b>21</b>
<b>Gambar 4.3: Haar Features At Stage 0.....</b>	<b>21</b>
<b>Gambar 4.4: Adaptive Boosting Classifier.....</b>	<b>22</b>
<b>Gambar 4.5: Cascade Classifier.....</b>	<b>22</b>
<b>Gambar 4.6: Face Detect.....</b>	<b>23</b>
<b>Gambar 4.7: Detect Face And Eyes.....</b>	<b>24</b>
<b>Gambar 4.8: Flowchart Project.....</b>	<b>26</b>
<b>Gambar 5.1: People Without Glasses 1.....</b>	<b>30</b>
<b>Gambar 5.2: Person with Clear Glasses 1.....</b>	<b>31</b>

**Gambar 5.3: Side View of People with Glasses.....32**

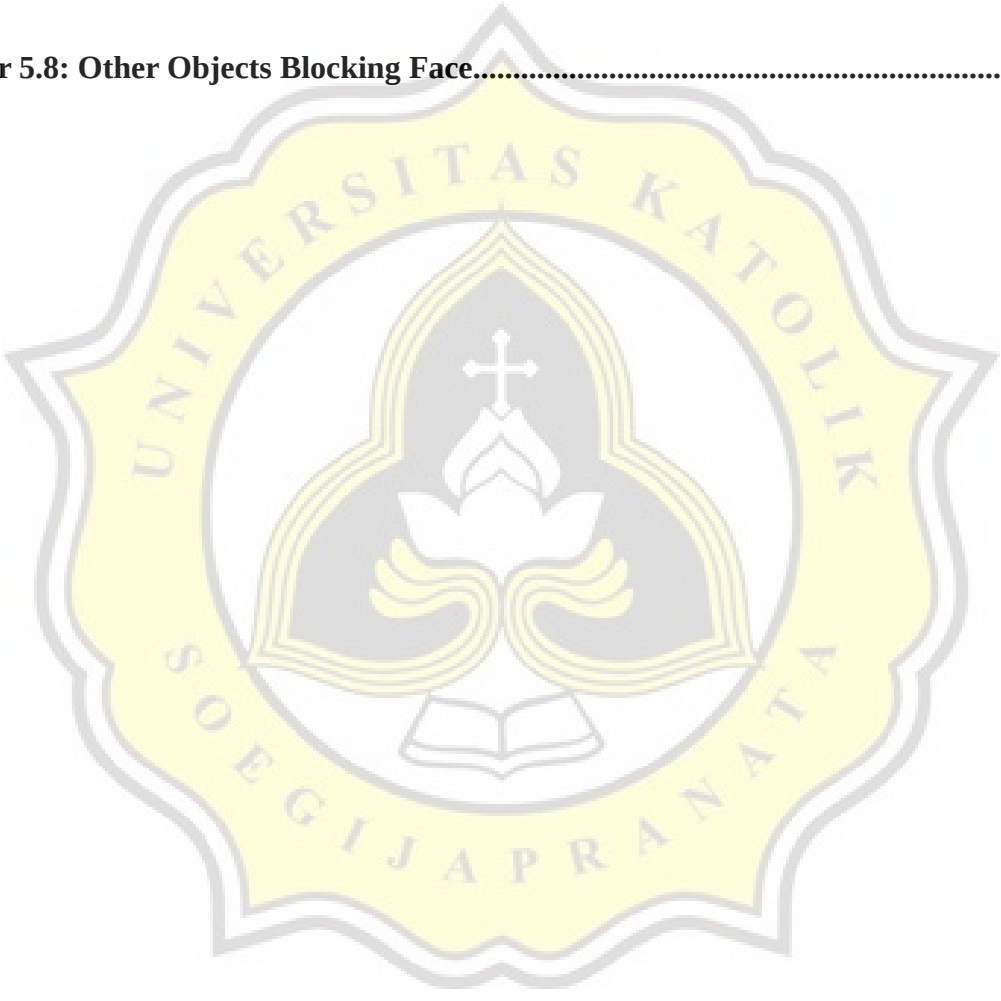
**Gambar 5.4: Back View of People with Glasses.....33**

**Gambar 5.5: Person with Clear Glasses 2.....34**

**Gambar 5.6: Person with Dark Glasses 1.....34**

**Gambar 5.7: People with Dark Glasses 2.....35**

**Gambar 5.8: Other Objects Blocking Face.....36**



## LIST OF TABLE

