PROJECT REPORT

DIRECT DETECTION OF PEOPLE WEARING GLASSES USING THE HAARCASCADE CLASSIFIER

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APPROVAL AND RATIFICATION PAGE

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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

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