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Fri, May 12, 2023 at 14:33

Hello,

The following submission has been created.

Track Name: May_2023

Paper ID: 51

Paper Title: Application of Face recognition using ML in Employee Emotion Detection

Abstract:

Face recognition has application in recognition of emotion from an employee's face. As most of the people in the world spend their time in the office. So, it becomes very important to analyze their health. People normally feel some amount of stress but some people may also feel very high stress due to workload and that becomes traumatic for them.

It is important for a company to know if their employees are in good mental health condition or not. Also, an organization can only take counseling or medical steps and do changes in the workload plan if they know the actual stress and mental health of the employees.

We can recognize the emotions of the employees from their faces and determine what they are feeling i.e., whether they are stressed or not. This research paper is focused on emotion recognition using machine learning techniques.

As we know emotion is a very complicated instruction produced by our brain. Emotion is generally observed from the changes in different facial features like eye and mouth regions. So, we can use different facial features to train the machine learning model and these facial features can be used to detect our emotions.

We can detect the major type of the emotions like anger, sadness, happiness, and neutrality on a daily basis. Pictures of the employees are captured at regular intervals like 5 minutes from the webcam of the employee's laptop or computer.

These pictures will be used to detect the emotions of the employees at regular intervals. Any employee who is not happy or neutral for a longer amount of time can be detected and will be suggested for counseling. By this highly stressed and skilled employees can be recognised.

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Secondary Subject Areas: Not Entered

Submission Files: Major project research paper IEEE format.pdf (87 Kb, Fri, 12 May 2023 09:01:23 GMT)

Submission Questions Response:

1. Link to Code/Data

<https://drive.google.com/file/d/129Sq41p6KbP04Q5L0GSTNz1XT0XVeZyx/view?usp=sharing>

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