G. Narayanamma Institute of Technology &Science (For Women)(Autonomous)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
<GN-R-18>   (2022 - 2023) II B. Tech II Sem Hobby Project
On "Facial Recognition Attendance system"

Abstract

A facial recognition system is a technology capable of matching a human face from a digital image or a video frame against a database of faces. Such a system is typically employed to authenticate users through ID verification services, and works by pinpointing and measuring facial features from a given image. Face recognition is among the most productive image processing applications and has a pivotal role in the technical field. Recognition of the human face is an active issue for authentication purposes specifically in the context of attendance of students. Attendance system using face recognition is a procedure of recognizing students by using face biostatistics based on the high-definition monitoring and other computer technologies.

Present strategies for taking attendance are tedious and time-consuming. Attendance records can be easily manipulated by manual recording. The traditional process of making attendance and present biometric systems is vulnerable to proxies. This paper is therefore proposed to tackle all these problems. The proposed system makes the use of classifiers, KNN, CNN, SVM, Generative adversarial networks, and Gabor filters. After face recognition attendance reports will be generated and stored in excel format. The Proposed system proved to be an efficient and robust device for taking attendance in a classroom without any time consumption and manual work. The system developed is cost-efficient and need less installation.

H/W&S/W Requirements

H/W Requirements: Intel core i5 processors, 8GB RAM, 1 TB hard drive, 64 bit OS.

S/W Requirements: HTML, CSS, PHP, Python3.

*Dept R&D: Yes / No   * If No: GNITS

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