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Deep Learning-Based Paperless Attendance Monitoring System

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Abstract

This paper concerns about the paperless attendance monitoring system. Major focus of this system is on the concept of face recognition. The goal is to mark the attendance without disturbing the class by using face recognition technique. Marked attendance using this monitoring system can be directly sent to the mentor/coordinator through email. Face recognition uses biometric features, and it extracts person's facial features and stores data. Faces will be recognized based on deep learning algorithm to train the system and to compare or test to identify the person. Time is an important factor in recognition. This factor has been brought up to get the attendance in hand of the respected person instantly. To implement this efficiently, we have gone for deep learning model based on CNN. One important aspect is to deal with the results of the live detection and the immediate prediction of the person. The proposed system can identify an individual from various angles and positions. One of the important parameters that decides the accuracy is the quality of image, better the quality better the accuracy. Quality of the captured image defines the accuracy of the system. After implementing CNN on created database, we achieved an accuracy of 80.5%. Accuracy value can change depending on the testing database.

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