OPENCY AND HAAR CASCADE BASED MONITORING SYSTEM

INTRODUCTION

A facial recognition system uses biometrics to map facial features from a photograph or video. It compares the information with a database of known faces to find a match.

PROBLEM STATEMENT

To devise a system that marks student's attendance through FACIAL RECOGNITION, hence automate the existing technology. The system should also be able to show required analysis based on the available data.

CURRENT MARKET STATUS



Biometric



RFID : Radio Frequency Identification



NEED OF WORK



Cross Check

No Proxy

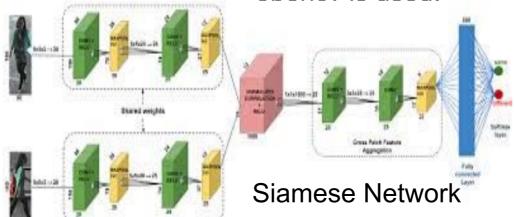


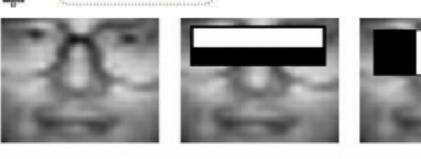


Less Paperwork

OUR APPROACH

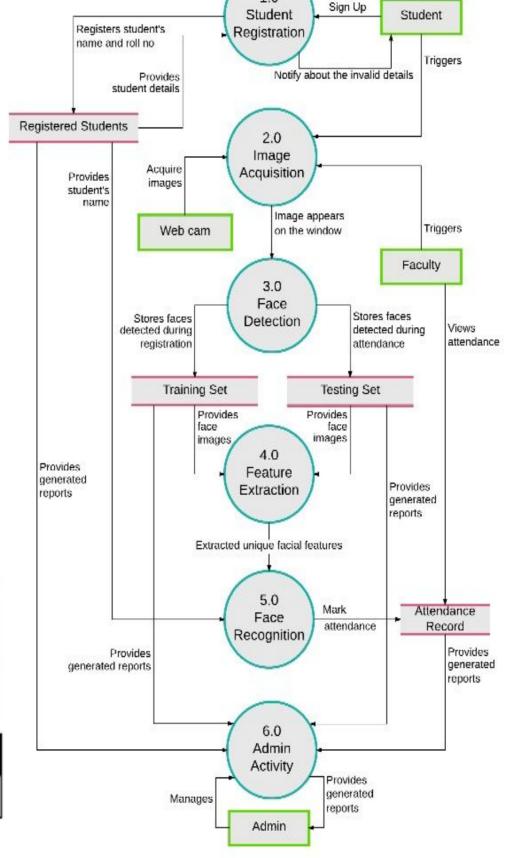
- Our system marks attendance of students through facial recognition.
- System is built on a special type of CNN architecture known as Siamese Network.
- For facial recognition haar cascade of opency is used.







Haar Cascade



1.0

SCOPE



Unknown person Detection

Overall Student analysis system





Monitoring
System for
criminals in
jail

RESULTS

SR N O.	ACTION	INPUT	Expected OUTPUT	ACTUAL OUTPUT	TEST RESU
1.	Capture Image	Person's Face	Images are captured and stored in folder	Images are captured and stored in folder	PASS
2.	Train Image Dataset	Stored Images	Model should be trained	Model is trained	PASS
3.	Face Recognition	Captured image through Webcam	Person should be recognised and attendance should be marked	Person should be recognise d and attendanc e should is marked	PASS
4.	Graphical result	CSV	Graphical analysis should be shown	Graphical analysis should be shown	PASS

APPID: 1915001666

Presented By : Sakshi Gupta & Siddhi Potdar



