Problem Statement

Attendance System (ML Based Solution)

Course: Product Design Practice

" Group Members "

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Literature Survey

- Approximately More than 10 mins is wasted out of the crucial time alloted for the class timings for attendance.
- Teachers have to maintain a attendance sheet and carry it every time they come to class, which is a burden for teachers.
- There is also a problem of students giving proxy which encourages non-attendance of classes and students become lazy.

Solution To The Problem

- To design a device which captures images of every person entering the room and recognises him/her from the records that has been initially trained on.
- If the image of person matches with any of the stored students record(face) then attendance of that student is marked for that day.

Solution To The Problem

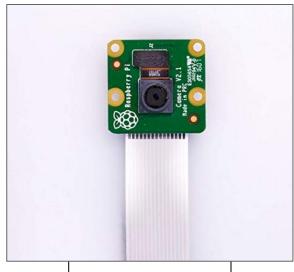
Continued...

- We Will Dump the Software into the Hardware (Raspberry pi) and will be installed at the class.
- It will Continuously capture the frames from the camera and predict who the person is entering.
- After marking the person face .. it will mark attendance for that person in the image captured and store in the database.

Bill of the Material

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Item	Approx. Cost
Raspberry Pi 3	Rs 2500 /-
Camera Module	Rs 2000 /-



Rs 2000 /-

Camera Module



Rs 2500 /-

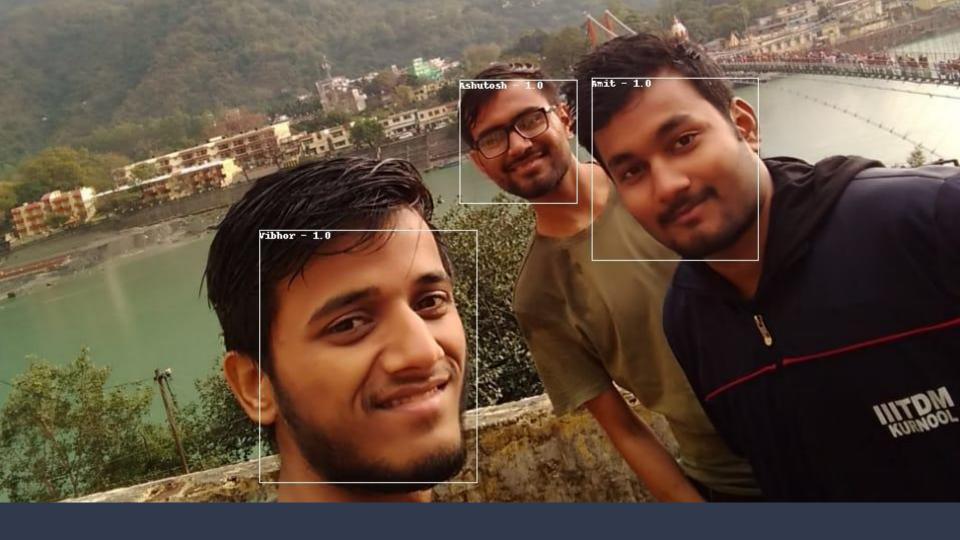
Raspberry Pi 3

Prices



Results









	Standard	Standard	Standard
1	Name	Attandance	Time
2	Nischay	Yes	2019-03-20 01:20:19.463001
3	Ashutosh	Yes	2019-03-20 02:12:46.697218
4	Vibhor	Yes	2019-03-20 02:14:35.900898
5	Vibhor	Yes	2019-03-20 02:18:10.952835
6	Amit	Yes	2019-03-20 02:18:12.037971
7	Vibhor	Yes	2019-03-20 18:37:40.920375
8	Amit	Yes	2019-03-20 18:37:42.492947
9	Ashutosh	Yes	2019-03-20 18:37:43.588509
10	Zubair	Yes	2019-03-20 18:40:40.563109
11	Vibhor	Yes	2019-03-20 18:40:41.648377
12	Milton	Yes	2019-03-20 18:40:42.717409
13	Amit	Yes	2019-03-20 18:40:43.798602