SAPTHAGIRI COLLEGE OF ENGINEERING
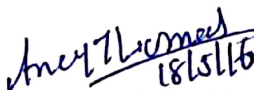
14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore-560057

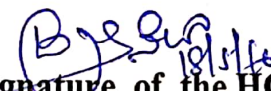## Department of Computer Science and Engineering

Certificate

Certified that project entitled "CLASSROOM ATTENDANCE MONITORING SYSTEM USING FACE RECOGNITION" carried out by, **KUMAR ANUBHAW (1SG12CS045), MANISH KUMAR OJHA (1SG12CS053), BRIJ KISHOR KUMAR (1SG12CS020), ANKIT PAL (1SG12CS005)**, bonafide student of **this institute**, in partial fulfillment for the award of **Bachelor of Engineering in Computer Science and Engineering** of **Visvesvaraya Technological University, Belgaum** during the academic year **2015-16.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project work (10CS085) prescribed for the said degree.

Signature of the Guide

Mrs. Ancy Thomas

Assistant Professor

Signature of the HOD

Dr. C.M. Prashanth

Professor & Head

Signature of the Princi

Dr. Aswatha Kumar

Principal

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Name of the Examiners

1 _____   _____

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ABSTRACT

Attendance monitoring is a very important task in all educational institution. There are many automatic methods available for this purpose i.e. biometric attendance. All these methods consumed more time because students have to make a queue to scan their thumb on the scanning device. There is also an algorithm that automatically marks the attendance without human intervention. This attendance is recorded by using a camera attached above the door of classroom that is continuously capturing images of students, detect the faces in images and compare the detected faces with the database and mark the attendance. This algorithm consume less amount of time doing unnecessarily execution while entry of students as many times. In this attendance monitoring, the camera is placed on the front wall inside the classroom. The faculty will give instruction to all students for the attendance to be alert and press the button once, the camera will take the shot and detect face of each student and update the attendance by detecting face of each student in the database. This algorithm takes less time to update attendance and avoid unnecessary execution.