VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

A PROJECT REPORT ON

"ATTENDANCE MONITORING IN EDUCATIONAL INSTITUTIONS USING SMART CCTV"

Submitted in partial fulfillment for the award of Degree of,

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE & ENGINEERING

By

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CERTIFICATE

This is to certify that the project entitled "ATTENDANCE MONITORING IN EDUCATIONAL INSTITUTIONS USING SMART CCTV" has been successfully completed by

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the bonafide students of **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING,** **ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2020–2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

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ABSTRACT

Smart CCTV Camera is basically implemented using Machine Learning in python. This project mainly focuses on how can we bring the changes in the traditional CCTV. Manual way of taking attendance in classroom is very difficult task. The main objective of this work is to reduce human task and make attendance system efficient and reduce time consumption. The proposed system is made by use of face detection and recognition algorithms. This system records attendance by using recognition technology. In this system, faces will be recognized and then attendance is marked and stored in the database which can also be exported. This will be very useful for security purpose and in can be implemented in all real-time security applications.