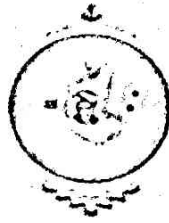# VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI - 590018

A PROJECT REPORT ON

AUTOMATED ATTENDANCE SYSTEM USING OPENCV

Submitted in partial fulfillment for the award of Degree of,

BACHELOR OF ENGINEERING

IN

INFORMATION SCIENCE AND ENGINEERING

By

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Under the Guidance of

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2023 – 2024

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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CERTIFICATE

This is to certify that the Project entitled "AUTOMATED ATTENDANCE SYSTEM USING OPENCV" has been successfully completed by

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the bonafide students of **DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**, Alva's Institute of Engineering and Technology, Moodbidri affiliated **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2023–2024. 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 in partial fulfillment of awarding Bachelor of Engineering Degree.

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ABSTRACT

Attendance management is a critical task in various organizations, ranging from educational institutions to workplaces. Traditional methods of attendance tracking, such as manual paper-based systems or card swiping, are prone to errors, time-consuming, and often lack reliability. This abstract presents an attendance system leveraging face recognition technology to automate the process efficiently and accurately. The proposed system utilizes computer vision techniques to recognize individuals' faces captured through a camera. Facial recognition algorithms are employed to extract unique facial features and match them against a pre-existing data of known faces. Upon successful identification, the system marks the individual's attendance, eliminating the need for manual intervention. Key features of the system include face detection, facial feature extraction, face matching, real-time processing, and user authentication. The system operates in real-time, enabling swift and seamless attendance tracking without causing delays. By automating the attendance management process, organizations can streamline operations, improve efficiency, and allocate resources more effectively. Overall, the adoption of a face recognition-based attendance system promises to revolutionize attendance management practices, offering a reliable, efficient, and secure solution for organizations of all sizes and sectors.