

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI**



**A PROJECT REPORT ON
“Face Recognition Based Attendance System”**

Submitted in partial fulfillment for the award of Degree of

BACHELOR OF ENGINEERING

**IN
COMPUTER SCIENCE & ENGINEERING**

By

ABUBAKKAR SIDDIQ

4AL20CS005

FARIS

4AL20CS038

Under the Guidance of

MrS. Deepika Kamath

Assistant Professor



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY
MOODBIDRI-574225, KARNATAKA**

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ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY
MIJAR, MOODBIDRI D.K. -574225, KARNATAKA



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
CERTIFICATE

This is to certify that the project entitled **"Face Recognition Based Attendance System"** has been successfully completed by

ABUBAKKAR SIDDIQ

4AL20CS005

FARIS

4AL20CS038

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 2023-24. 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 Projectwork prescribed for the Bachelor of Engineering Degree.

Mr. Deepika kamath
Project Guide

Dr. Manjunath Kotari
Head Of the Department

External Viva

Dr. Peter Fernandes
Principal

Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K.

Name of the Examiners

1. Dr. S. Monisha Bhat
2. Dr. Manjunath Kotari

Signature with Date

30/5/24

ABSTRACT

The main purpose of this project is to build a face recognition-based attendance system to enhance and upgrade the current attendance system into more efficient and effective as compared to before. The current old system has a lot of ambiguity that caused inaccurate and inefficient of attendance taking. Many problems arise when the authority is unable to enforce the regulation that exist in the old system. Thus, by means of technology, this project will resolve the flaws existed in the current system while bringing attendance taking to a whole new level by automating most of the tasks.

The technology working behind will be the face recognition system. The human face is one of the natural traits that can uniquely identify an individual. Therefore, it is used to trace identity as the possibilities for a face to deviate or being duplicated is low. In this project, face databases will be created to pump data into the recognizer algorithm. Then, during the attendance taking session, faces will be compared against the database to seek for identity. When an individual is identified, its attendance will be taken down by clicking the take image button and saving necessary information into a database system. At the end of the day, the attendance information regarding an individual can be accessed from an Excel sheet.