ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "**ATTENDANCE SYSTEM BASED ON FACIAL RECOGNITION USING ENHANCED FASTER CNN ALGORITHM**" is the bonafide work of the following students.

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Submitted for the viva voce examination held on ..22.06.2022...

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22/06/22

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ATTENDANCE SYSTEM BASED ON FACIAL RECOGNITION USING ENHANCED FASTER CNN ALGORITHM

A PROJECT REPORT

Submitted by

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In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE ENGINEERING

T.J.S ENGINEERING COLLEGE

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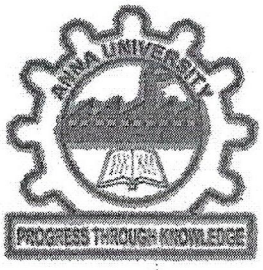

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ABSTRACT

This project deals with the design and implementation of "**Attendance system based on facial recognition using Enhanced Faster CNN algorithm**" This project involves building an attendance system which utilizes facial recognition to mark the presence, time-in, and time-out of Student/students. It covers areas such as facial detection, alignment, and recognition, along with the development of a GUI application to cater to various use cases of the system such as registration of new Students, addition of photos to the training dataset, viewing attendance reports, etc. This report explains the open CV libraries and Deep Learning based models and algorithms that have been used for facial detection and recognition. Explanation and use of Flask, along with a Local database for GUI application development and database management has been provided. This project intends to serve as an efficient substitute for traditional manual attendance systems. It can be used in corporate offices, schools, and organizations where security is essential. The report also includes chapters covering project planning, methodology adapted and failures. This attendance system which utilizes facial recognition to mark the presence, time-in, and time-out of Students. It covers areas such as facial detection, alignment, and recognition, along with the development of a web application to cater to various use cases of the system such as registration of new Students, addition of photos to the training dataset, viewing attendance reports, etc. This project intends to serve as an efficient substitute for traditional manual attendance systems. It can be used in corporate offices, schools, and organizations where security is essential. The purpose of this document is to specify software requirements of the Attendance Management System Using Face Recognition and Faster Region Based Convolutional Neural Networks. It is intended to be a complete specification of what functionality the Attendance Management System provides.

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