# ACKNOWLEDGEMENT

# ABSTRACT

The main purpose of the proposed system is to build a face recognition-based attendance monitoring machine for educational institution to enhance and upgrade the current attendance system into more efficient and effective as compared to before. 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. Face databases will be created to pump data into the recognizer algorithm. Then, during the attendance taking session, faces will be compared with the database to seek for identity. When an individual is identified, his or her individual's identification count is updated. Based on the identification count and time period the duty time is verified. The identification count is used to track Coming In and Coming Out of individuals. An Admin is in control of all the database for face structures and attendance where he can modify attendance and control the face data structures. All the attendance details are available for the users through a portal and they can track the activities through this portal. Also, a remark is also generated which is an add-on to our project, where the mood of each individual is analyzed based on the facial data.

# CONTENTS

# CONTENTS

# LIST OF FIGURES

# ABBREVIATION

ML              MACHINE LEARNING

CNN          CONVOLUTIONAL NEURAL NETWORKS

MySQL        MY STRUCTURED QUERY LANGUAGE

SQL            STRUCTURED QUERY LANGUAGE

IDE             INTEGRATED DEVELOPMENT ENVIRONMENT