**VIT BHOPAL UNIVERSITY**

**SCHOOL OF COMPUTING SCIENCE AND ENGINEERING**

DSN-2098 PROJECT EXHIBITION –I

WEEKLY REPORT

Title: FACE RECOGNITION

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**II YEAR BTECH (CSE), IIIrd SEMESTER**

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**ABSTRACT**

The face is one of the easiest ways to distinguish the individual identity of each other. Face recognition is a personal identification system that uses personal characteristics of a person to identify the person's identity. Human face recognition procedure basically consists of two phases, namely face detection, where this process takes place very rapidly in humans, except under conditions where the object is located at a short distance away, the next is the introduction, which recognize a face as individuals. Stage is then replicated and developed as a model for facial image recognition (face recognition) is one of the much-studied biometrics technology and developed by experts. There are two kinds of methods that are currently popular in developed face recognition pattern namely, Eigenface method and Fisherface method. Facial image recognition Eigenface method is based on the reduction of face dimensional space using Principal Component Analysis (PCA) for facial features. The main purpose of the use of PCA on face recognition using Eigen faces was formed (face space) by finding the eigenvector corresponding to the largest eigenvalue of the face image. The area of this project face detection system with face recognition is Image processing.

**Keywords**: face detection, Eigen face, Principal Component Analysis

**Objective:**

To make face recognition more efficient, we are introducing a high accuracy system which detects face and generates the name of the person. This system will be convenient for several tasks such as marking attendance of students in a class.

**WEEKLY REPORT- I**

**From: 20/07/2022** **To: 27/07/2022**

**Topic Discussion/Work Done:** Prepared the presentation on our topic and compiled the resources that would be needed to make the project.

**Work Proposed:** Face detection using machine learning in python and a website for the same.

**REVIEW COMMENTS**

**Guide:** Presentation is satisfactory.

**Guide Signature:**

**WEEKLY REPORT- II**

**From: 28/07/2022** **To: 04/08/2022**

**Topic Discussion/Work Done:** Started compiling the dataset required for the program and learning the process required to write the code.

**Work Proposed:** Dataset Pre-processing

**REVIEW COMMENTS**

**Guide:** Take images from more angles and increase the dataset.

**Guide Signature**

**WEEKLY REPORT- III**

**From: 22/08/2022** **To: 28/08/2022**

**Topic Discussion/Work Done:** Made a program for face detection and increased the dataset.

**Work Proposed:** Face detection in an image of many other people and objects and head towards face recognition.

**REVIEW COMMENTS**

**Guide:** The program is good. Can try for face recognition.

**Guide Signature**

**WEEKLY REPORT- IV**

**From: 29/08/2022** **To: 04/09/2022**

**Topic Discussion/Work Done:** Learnt the procedure for face recognition and tried implementing the code using codes for each image.

**Work Proposed:** Face recognition using loop

**REVIEW COMMENTS**

**Guide:** Use loop for testing more dataset.

**Guide Signature**

**WEEKLY REPORT- V**

**From: 05/09/2022** **To: 11/09/2022**

**Topic Discussion/Work Done:** Made the code for face recognition using loop so that more dataset could be tested and started working on website.

**Work Proposed:** Website for face recognition

**REVIEW COMMENTS**

**Guide:** Work done is satisfactory. Some of the bugs

Need to be fixed.

**Guide Signature**

**WEEKLY REPORT- VI**

**From: 12/09/2022** **To: 18/09/2022**

**Topic Discussion/Work Done:** Fixed the bugs in the program and made the website.

**REVIEW COMMENTS**

**Guide:** Work done is satisfactory.

**Guide Signature**

**WEEKLY REPORT- VII**

**From: 19/09/2022** **To: 25/09/2022**

**Topic Discussion/Work Done:** Made the presentation and project report for final review.

**REVIEW COMMENTS**

**Guide:** Mentioned goal for Project Exhibition-I is achieved. Satisfactory work done

**Guide Signature**