

# CARA

## The Life Salvator

Tanvi Mahadevia<sup>1</sup>, Prof. Ajaykumar T. Shah<sup>2</sup>

<sup>1</sup>Student, Department of Computer Engineering

<sup>2</sup>Head of Department of Computer Engineering

<sup>1,2</sup> Alpha College of Engineering and Technology

**Abstract-** A face recognition system is kind of a biometric information system applicable to identify the face using camera or sensor. Using fingerprint scanning we can identify the fingerprint of person. The face detection process acquires a live or real image without any duplication. It scans the retina and the vector matrix of the face of person and try to identify the data of the person. The face recognition system includes the various process like face feature extraction and image processing. In the system of face classification Feed Forward Neural Network is used in the system.

**Keywords:** python, Design with Django, Design with HTML and CSS, Choose image, Microsoft SQL Server, One Time Login System, Fast and Fluid

### I. INTRODUCTION

Face recognition system is a part of the image recognition process which can process multiple image at a time to process the data and extract the images. The use of biometric information humans is applicable easily instead of application. The main purpose of the system is to identify the face and detect the data which person is not present at the current moment of the time. It captures the image at the time of entrance and it recognizes the person at that time when we want to collect the data.

Python is a platform used to configure the data and it has various inbuilt libraries to perform the task which needs a single call using the object. CNN library provides the network mapping of data which feeds forward the data. Recognition algorithm is used to classify the given images and train and test the data as well. The first step is to acquire the system using camera. In the second step face is detected from the acquired images. As a third step face recognition detected face is recognized and features are extracted from the libraries.

### II. LITERATURE REVIEW

A. Python is a web development platform, which provides a programming model, a comprehensive software infrastructure and various services required to build up

robust web applications for PC, as well as mobile devices. Python is used to produce interactive, data-driven web applications over the internet. It consists of a large number of controls and libraries such as pandas, numpy, scipy for assembling, configuring, and manipulating code to create HTML pages.

- B. SQL Server is a relational database management system (RDBMS) developed and marketed by Microsoft. As a database server, the primary function of the SQL Server is to store and retrieve data used by other applications.
- C. PyCharm or Anaconda is used to write native code and managed code supported by Microsoft Windows, Windows Mobile, Windows CE, .NET Framework, MAC OS, Linux

Python libraries provide inbuilt functions to develop a code. The PyCharm integrated debugger supports both source and machine-level debugging. PyCharm includes other built-in tools, like a form designer, which is useful when building GUI applications; a Web designer that creates dynamic Web pages; a class designer that is used to create custom libraries, and a schema designer for database support.

### III. STUDY FINDINGS

- A. The current system is able to detect a single face at a time it cannot detect multiple faces. Even if we have similar kind of the data or person it conflicts between two persons. The system may fail if we have training data of a person with a beard and if that person comes without a beard that system may fail. If we want to train data in the live system that needs lots of efforts and time.
- B. Help out many features collaborative with in one type of the system included. So it can be helped out in new trends that many functions usable to in one web application in these new systems. Different kind of modules and phases are usable in that known as a particular of the fields.

- C. System should be able to one time login. It provide user-admin communication. It provide highest access of data. It provide secure accessibility.it also provide flexibility of services. It also provide reliable images and give better performance.
- D. Every user should be comfortable for the working of the known as a basic computer and net browser. They must have basic knowledge of English Language. User have to login one time. User can select the desired person by selecting categories. User must have some knowledge of how to use any websites. They have been some create account of basic needs.
- E. Admin is an entity that will manage entire system. Admin have must authorized. Admin have all rights to performing any type of given rights to the given user because they will have highest level of access the rights. Admin have under observation of some areas like database, security, integration and management.
- F. The minimum hardware requirement is Memory of 4 GB RAM or more, Monitor resolution of 1024\*768 or highest access, Intel Pentium 4 or AMD Athlon 2 GHz (or more faster), 1 GB (or more) available hard disk space.

#### IV. FUTURE ENHANCEMENT

Best for the face recognition . face recognition is used to design for face identification purpose. The system will provide individual face detection. In future this system might provide face recognition in motion .

#### V. CONCLUSION

This system helps user to identify the face and recognize the data, it provides bio matric login to the system. The system is user friendly and has convenient user interface. The reliability, robustness and correctness of the system exact need more elaborate study to help the admin. The helping out maintain their accounts, data, records easily.

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