

**MINI PROJECT – II**  
**(2019-20)**

**SECURING DATA USING FACE  
RECOGNITION SYSTEM**

**SYNOPSIS**



**Institute of Engineering & Technology**

**Team Members**

Tanuj Johal  
(171500356)  
Anushka Soni  
(171500059)

***Supervised By***

Mr. Neeraj Khanna  
**Department of Computer Engineering & Applications**

### **About the Project:**

This project is aimed is to detect an object of interest(face) in real-time and to keep tracking the same object. This is a simple example of how to detect a face in Python. You can try to use training samples of any other object of your choice to be detected by training the classifier on required objects. After detecting the face it will help you in securing your private data. As you can use your face as lock of your folder. It will automatically open your folder after detecting your face using OpenCV and python.

### **Modules:**

The modules of the software are as follows:

- **Face Detection:** This module help us in setting up the training data and make our model ready to detect the faces and storing it with some key value.
- **Folder Unlocking:** This module help us in unlocking the folder using your photo as a key to your lock.

### **Motivation:**

As we know that we are living in the world were data is everything. So, keeping your data is more challenging now a days. This project will help in securing our data to any particular folder only. Windows doesn't provide this facility till now as well So, it will help user in this way.

### **Audience Target:**

The influenced people through the project are the one who want to keep there data protective from other people like if anyone is working in an office desktop. There are private information which need to be keep secretly for company and individual as well. This project is not only for them but also for every common person who want to keep there data private and don't want to learn long digits password and all. Ultimately, the entire nation will be affected through some steps of ours.

### **Future Prospects:**

Over the years, movies have fixed a futuristic fantasy in our minds that a time will come when software would be used to recognize people by their faces. A time when our faces will be our ID cards. With advent of facial recognition technology, that time is already here. It can be used in government bodies for identify the children who are missing. It can be used in manufacturing to control and record access to specific location for employees, visitors, vendors and maintenance staff.

### **Requirements:**

#### **a) Hardware:**

- **Processor: Intel Core i5 or above**
- **Camera**
- **RAM: 8 GB or Above**
- **Hard Disk: 40 GB or above**

#### **b) Software & Technology:**

- **Python 3.6**
- **Powershell**
- **Jupyter Notebook**
- **Pycharm**

