

REAL TIME FACE ATTENDANCE SYSTEM

Face recognition is a biometric recognition technique. Biometric recognition is an information system that allows the identification of a person based on some of its main physiological and behavioural characteristics. Face recognition is a broad problem of identifying or verifying people in photographs and videos, a process comprised of detection, alignment, feature extraction, and a recognition task.

STEP 1: DOWNLOAD THE SOURCE CODE (Valid for 7 Days to download)

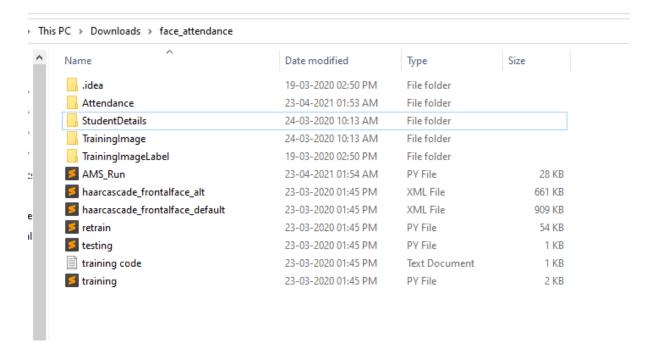
Download source code (click on below buttons)

Download Source Code

YouTube Video

and un-zip

After successful unzip, folder structure will be look like as below



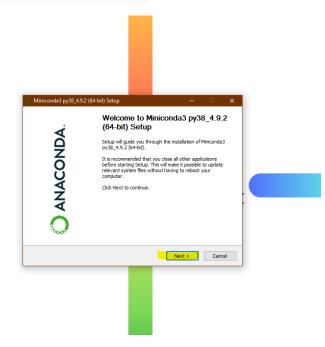


STEP 2: DOWNLOAD MINICONDA FROM BELOW LINK

Download Miniconda

After downloading, double click on setup file and install

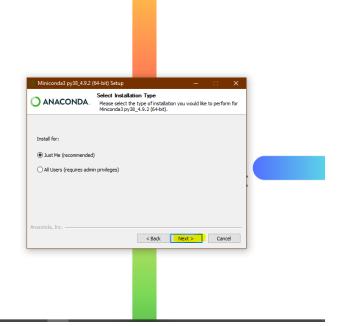








www.extrinsictechnology.com



Do not tick the checkbox



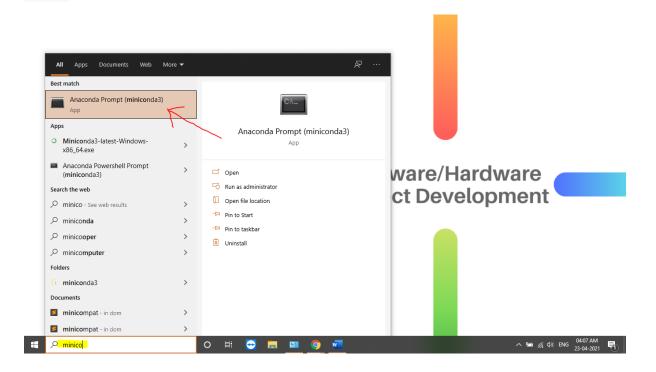
www.extrinsictechnology.com



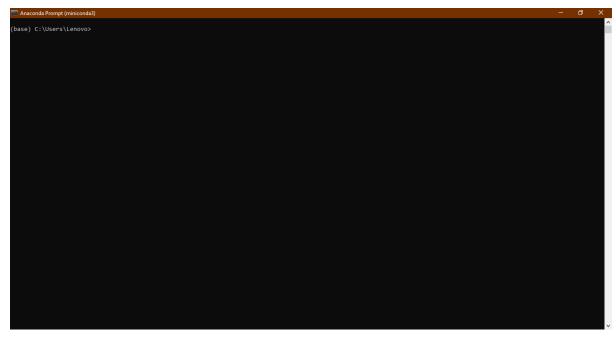




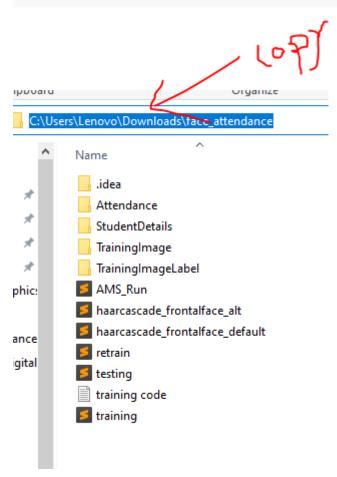
Step 3: Launch Miniconda/Anaconda PROMPT and Navigate to the project folder







Copy the path of source code as shown below



Paste the path in Ananconda prompt with typing cd



(Above path can be different for you, so copy only that path where your project stored)

```
■ Anaconda Prompt (miniconda3)

(base) C:\Users\Lenovo>cd C:\Users\Lenovo\Downloads\face_attendance_
```

Hit Enter.

```
Anaconda Prompt (miniconda3)
(base) C:\Users\Lenovo>cd C:\Users\Lenovo\Downloads\face_attendance
(base) C:\Users\Lenovo\Downloads\face_attendance>_
```

Step 4: Install Required packages by using below command (copy paste)

Pip install opency-python pillow pandas opency-contrib-python pymysql

```
□ Anaconda Prompt(miniconda3)

(base) C:\Users\Lenovo\Downloads\face_attendance>Pip install opencv-python pillow pandas opencv-contrib-python pymysql.
```

Hit enter

In my system these packages are already installed so you will get different installation window. Don't panic, it will be same

```
(base) C:\Users\Lenovo\Downloads\face_attendance>Pip install opencv-python pillow pandas opencv-contrib-python pymysql
Requirement already satisfied: opencv-python in c:\users\lenovo\miniconda3\lib\site-packages (4.5.1.48)
Requirement already satisfied: pillow in c:\users\lenovo\miniconda3\lib\site-packages (8.2.0)
Requirement already satisfied: pandas in c:\users\lenovo\miniconda3\lib\site-packages (1.2.4)
Requirement already satisfied: opencv-contrib-python in c:\users\lenovo\miniconda3\lib\site-packages (4.5.1.48)
Requirement already satisfied: pymysql in c:\users\lenovo\miniconda3\lib\site-packages (1.0.2)
Requirement already satisfied: numpy>=1.17.3 in c:\users\lenovo\miniconda3\lib\site-packages (from opencv-python) (1.20.2)
Requirement already satisfied: python-dateutil>=2.7.3 in c:\users\lenovo\miniconda3\lib\site-packages (from pandas) (2.8.1)
Requirement already satisfied: pytz>=2017.3 in c:\users\lenovo\miniconda3\lib\site-packages (from pandas) (2021.1)
Requirement already satisfied: six>=1.5 in c:\users\lenovo\miniconda3\lib\site-packages (from python-dateutil>=2.7.3->pandas) (1.15.0)

(base) C:\Users\Lenovo\Downloads\face_attendance>_
```

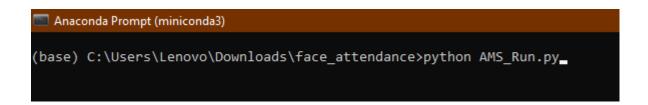


Step 5: Launch the Actual Application

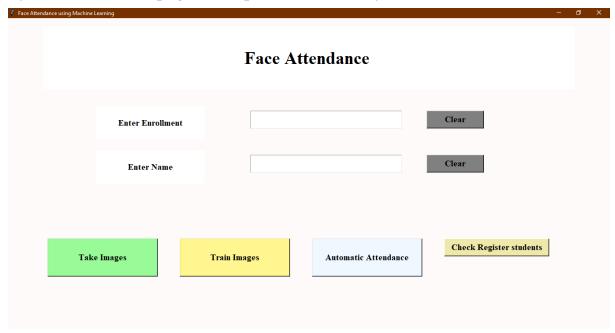
Run command

Python AMS_Run.py

Hit enter

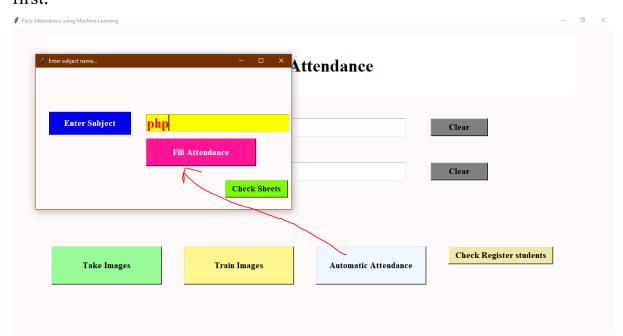


Python Tkinter UI page will open automatically

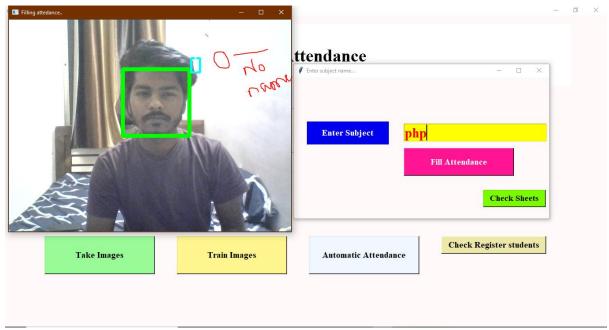




Click on Automatic Attendance and check your name should not be come first.



Camera will open but person cannot be identified/unknown.



As your face is not registered in Application, it will not mark you as present.

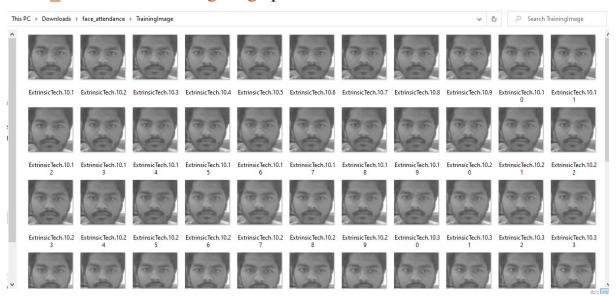


Step 6: Add Student Face to database

- 1. Enter Roll Number and Name
- 2. Click on Take Images

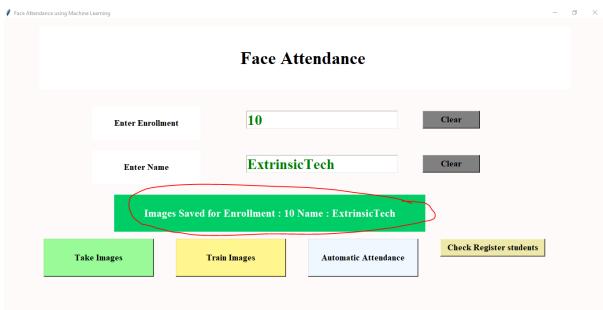
Face Atter	ndance using Machine Learning			-	o x
		Face Att	tendance		
	Enter Enrollment	10		Clear	
	Enter Name	Extrinsic	Tech	Clear	
	Take Images	Train Images	Automatic Attendance	Check Register students	

You will see that camera will open and will multiple shots will be stored in .\face _attendance\TrainingImage path

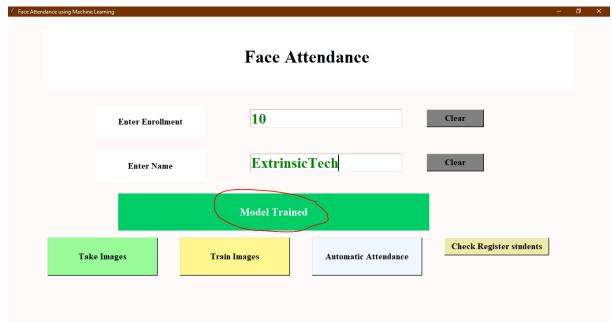


After capturing your face images, it will be stored and on UI you will see this message





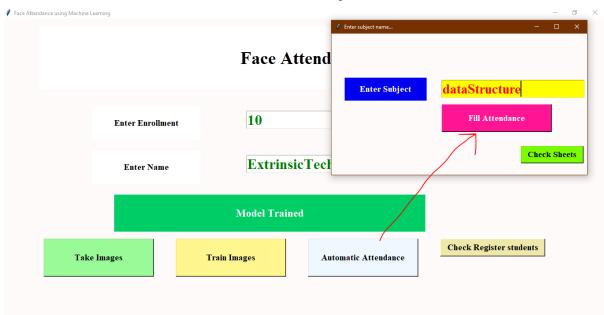
Now Click on Train images so your face model will be ready. After successful training of the model you will get below msg



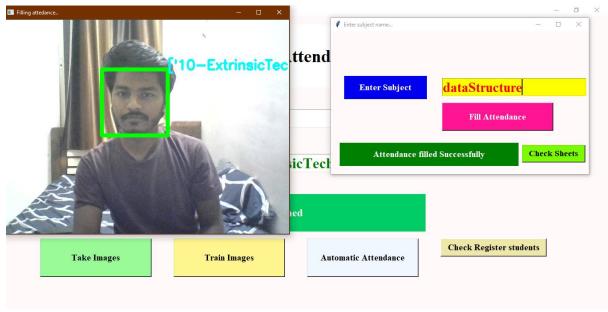


Step 7: Real Time attendance

Click on Automatic Attendance, select subject and start.

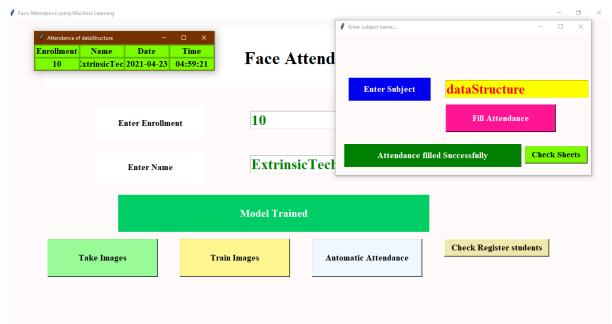


Roll Number and Name will be displayed on Face

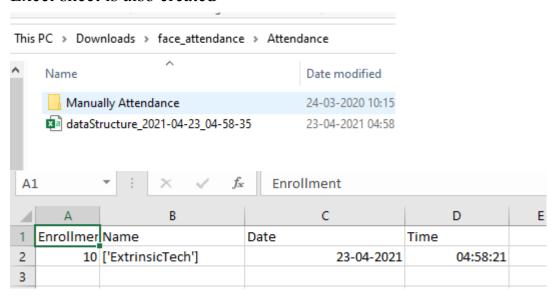


You can also see the all attendees after taking attendance on pop up screen





Excel sheet is also created

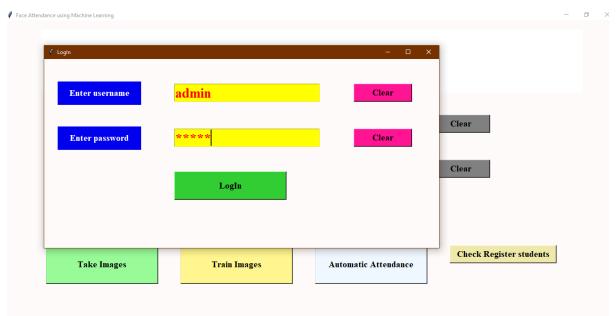




Step 8: You can also check the details of registered student here

Face Attendance using Machine I	Learning			– d X			
	Face Attendance						
	Enter Enrollm	ent		Clear			
	Enter Name	,		Clear			
			1ed				
Take	e Images	Train Images	Automatic Attendance	Check Register students			
Tak	Enter Name	Model Train					

Username : admin Password : admin



Enrollment	Name	Date	Time					
10	extrinsicTec	2021-04-23	04:54:13					



Thanks and Regards, Extrinsic Technology

Enquiry for new project : https://www.extrinsictechnology.com/contact-us/

Official Store: https://www.extrinsictechnology.com/

Email: aakash.tensorflow@gmail.com

Facebook Page: https://www.facebook.com/extrinsicTech

Instagram : https://www.instagram.com/extrinsictechnology/