

# Face Recognition based Attendance System

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# OBJECTIVE

To make efficient use of face recognition for the purpose of attendance marking.

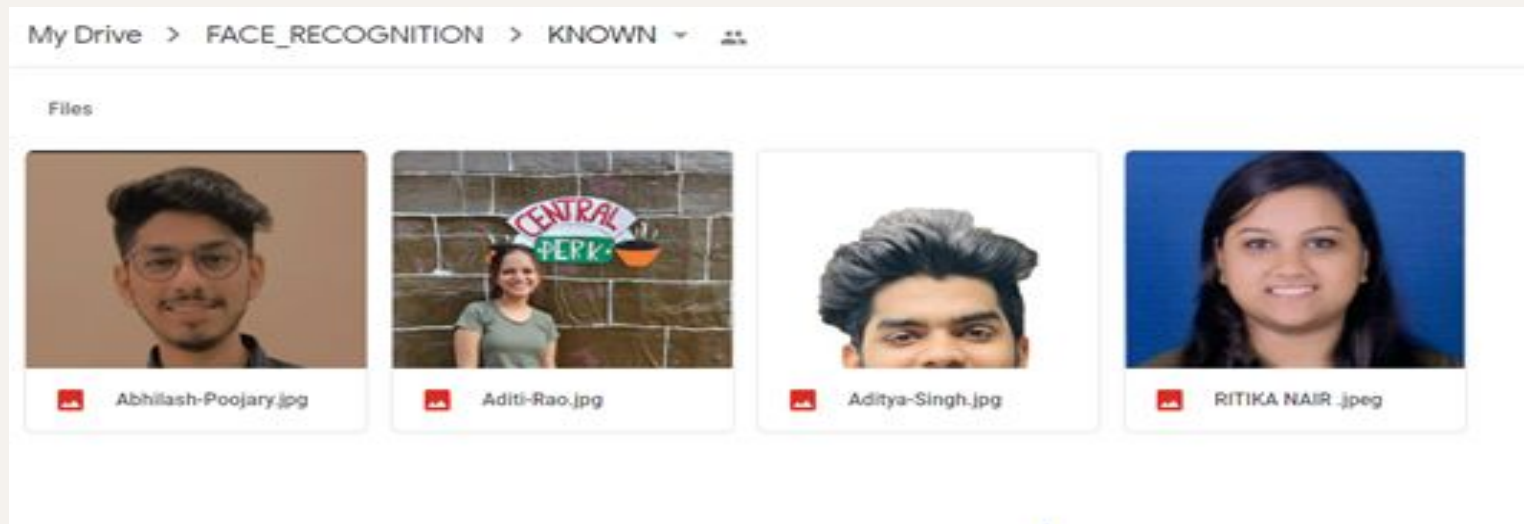
Face recognition is more accurate and faster technique among other techniques and reduces the chance of proxy attendance.

Marks attendance, along with in-time and out-time.

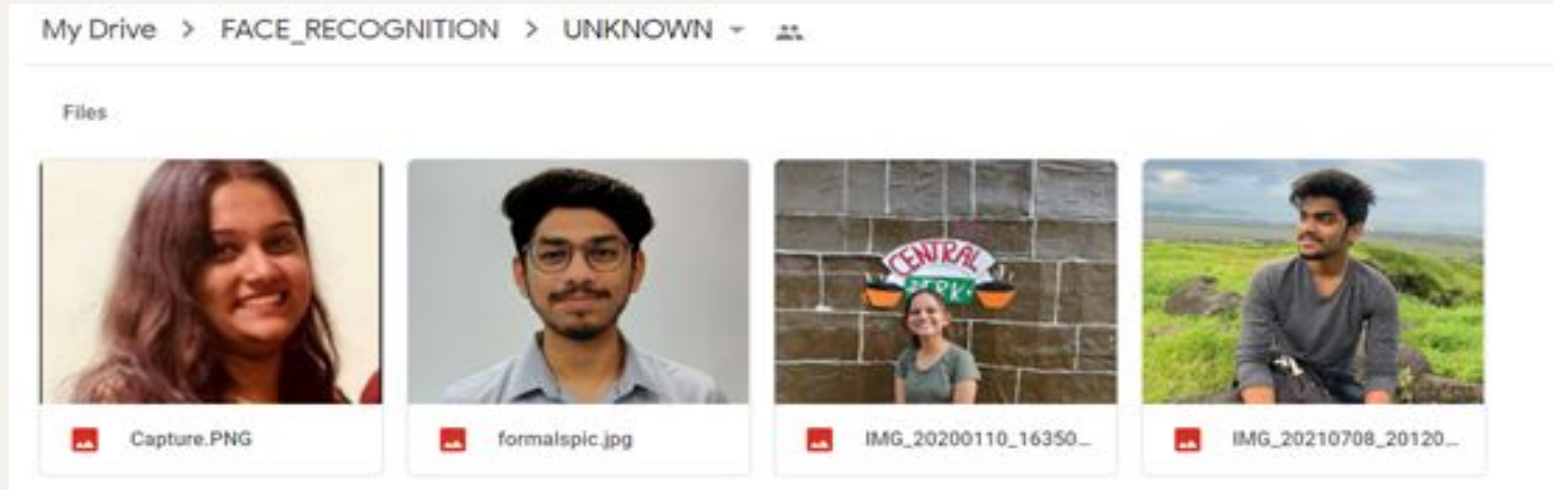
Tabular representation of attendance data.

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# DETAILS OF DATASET



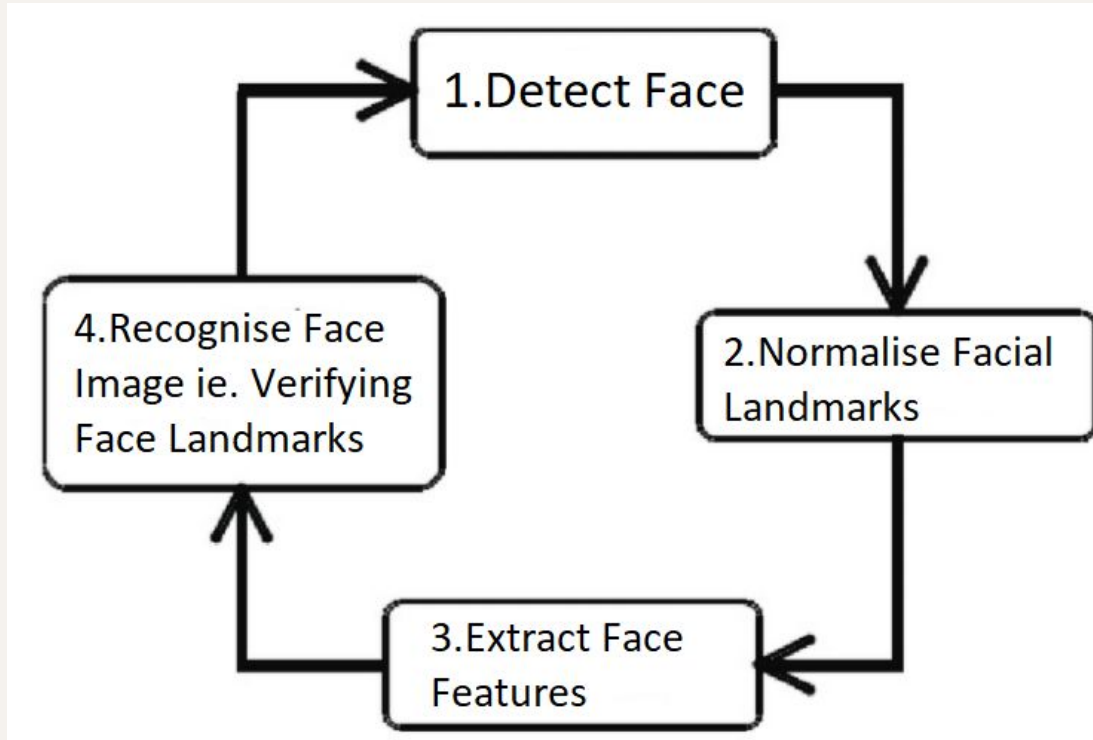
Training Datasets (Known)



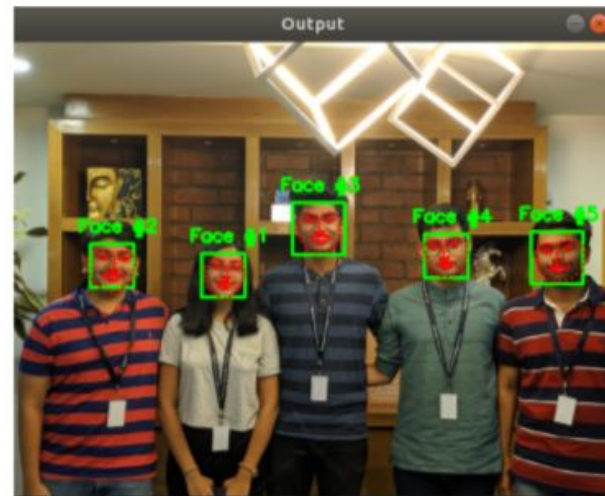
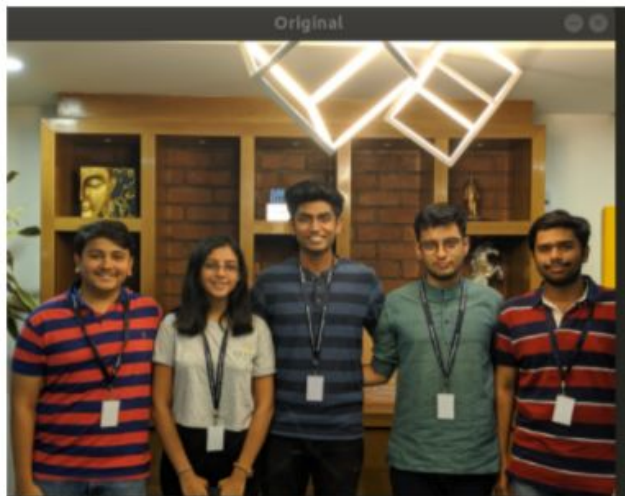
Testing Datasets (Unknown)

**Note: Dataset can also be generated by using Webcam in order to generate new training and testing datasets.**

# METHODOLOGY



# Face\_Recognition package



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# IMPLEMENTATION

- We first input our dataset to the face recognition library. It creates an encoding for every image present and stores it.
  - After the encoding of our known dataset, now we can test it on the unknown dataset. Similarly, it will create encodings for the unknown dataset as well.
  - Both the results are compared and we get an array of recognized names.
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# RESULT



Attendance .XLSX

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	A	B	C
1		Name	Timestamp
2	0	Abhilash-Poojary	08/07/2021 21:11:10
3	0	Aditi-Rao	08/07/2021 21:11:10
4	0	Aditya-Singh	08/07/2021 21:11:10
5	0	RITIKA NAIR	08/07/2021 21:11:10
6			
7			

# CONCLUSION

Automated Attendance System can reduce the errors that occur in the traditional (manual) attendance taking system.

This system is very useful for organizations

Efficient and accurate method to mark attendance.

Secure, reliable and available.

No need for specialized hardware, can be constructed using a camera and computer.



**Thank  
You**

