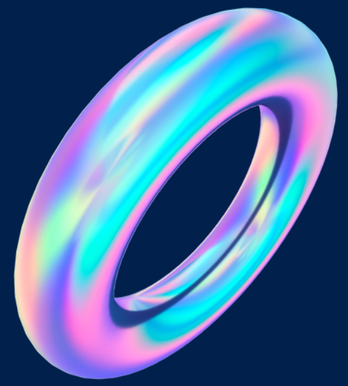
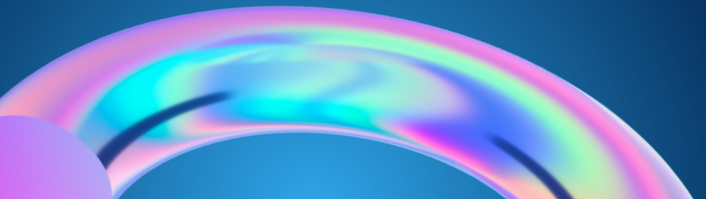
FACE RECOGNITION ATTENDANCE MONITOR

AGENDA:

- Introduction
- Significance
- Algorithm(Flowchart)
- Explaination
- Conclusion

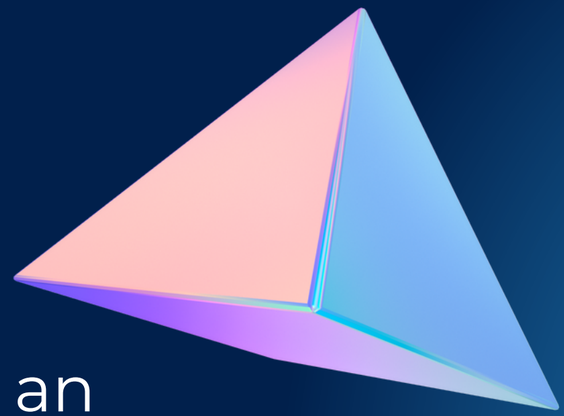




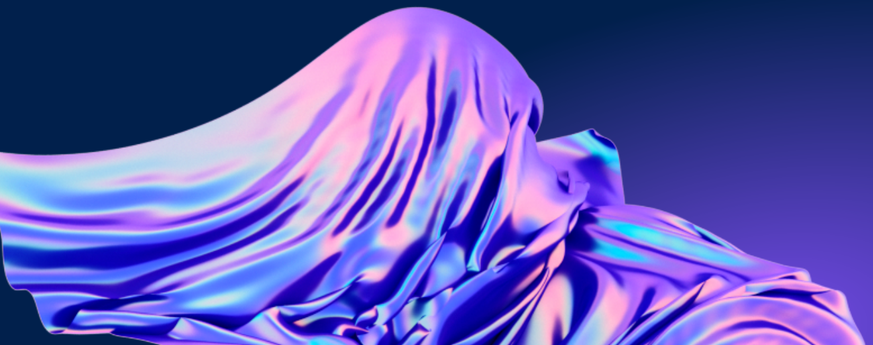
INTRODUCTION:

In order to determine classroom attendance, mask detection and student discipline we are using face recognition attendance monitor, the entire environment is automated, You won't just take the attendance but also automatically record the entry time of the student and detection of mask in face of the student during COVID-19 periods and also it warn the students entering without mask and late timing for class. This may increase the class time and reduce the manual works.

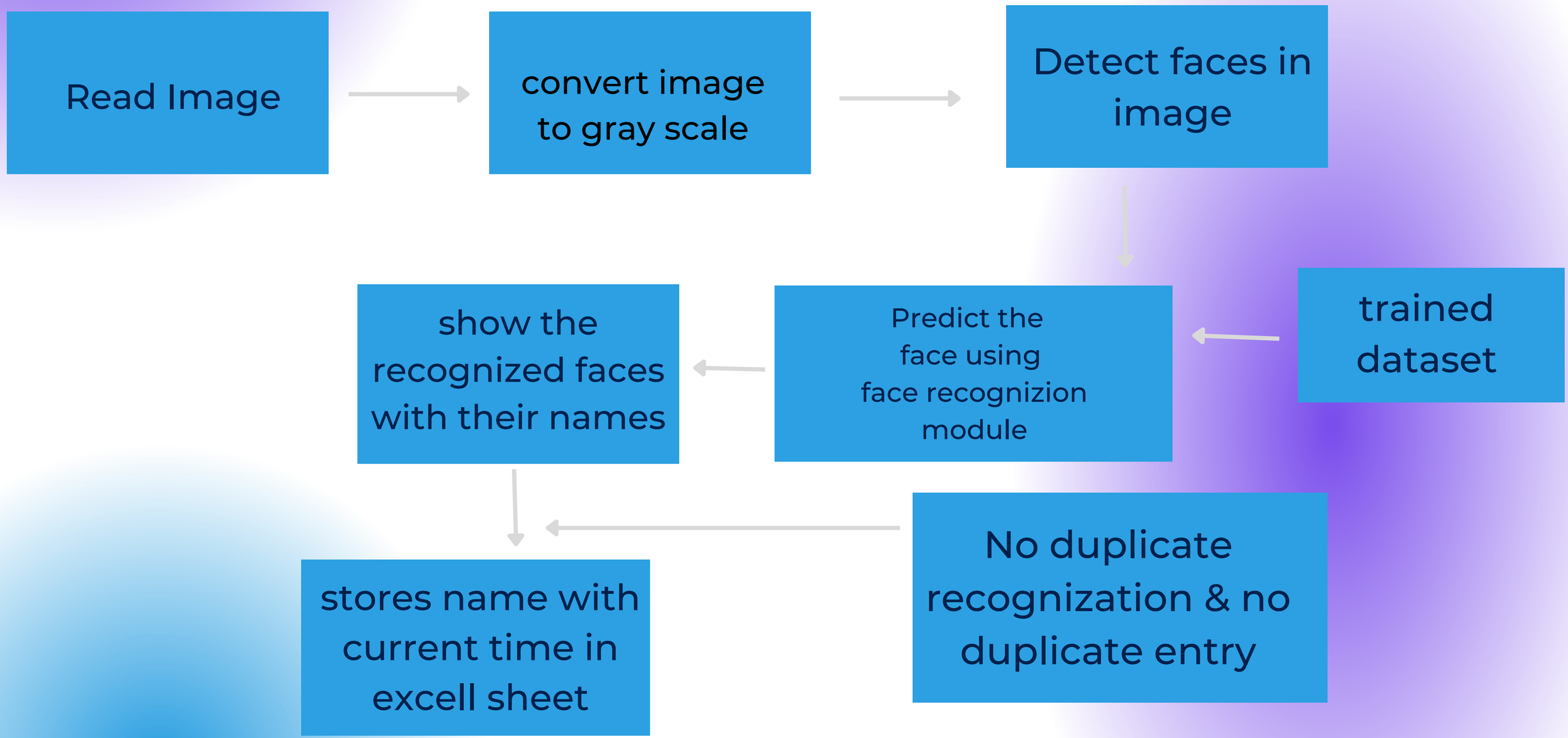
SIGNIFICANCE:



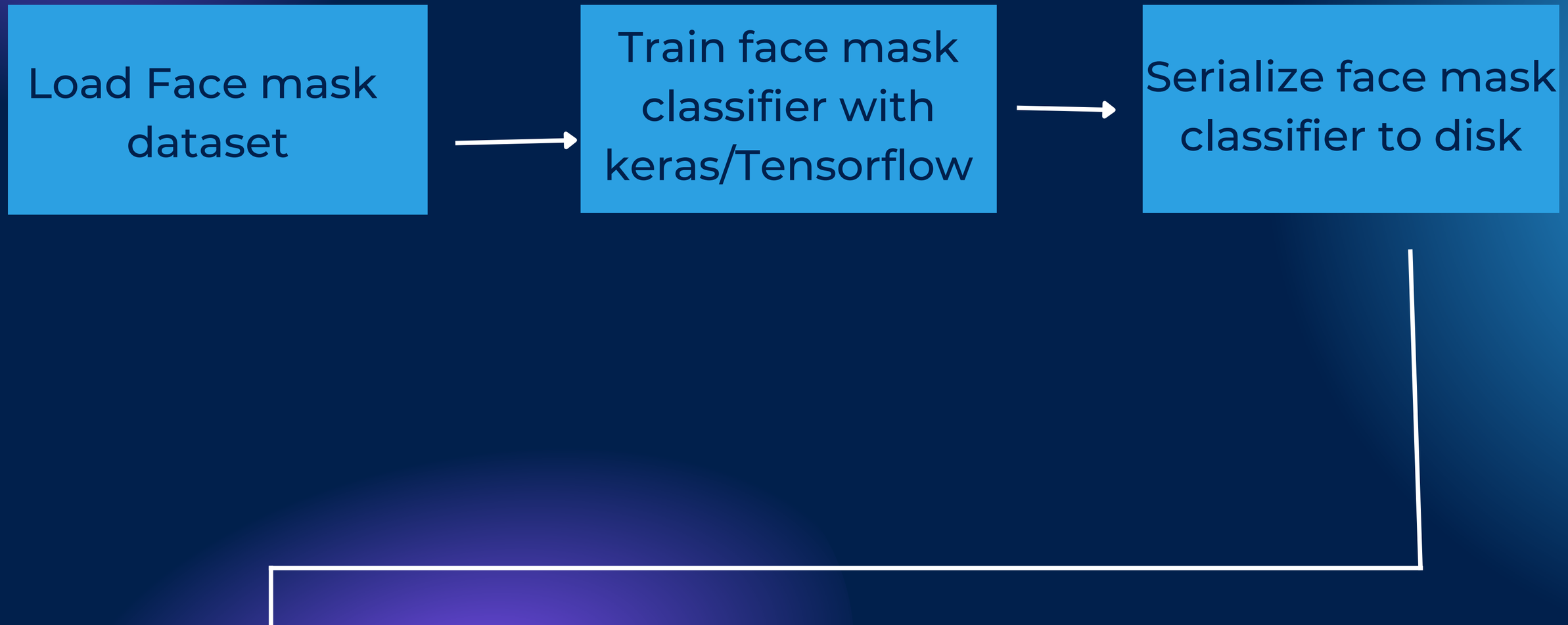
- It can tolerate certain facial movement up to an extent. That is , from frontal to a different direction.
- It is the safest and fastest method of security.
- This application requires one-time installation charge.
- Another task in research is detecting people with or without mask



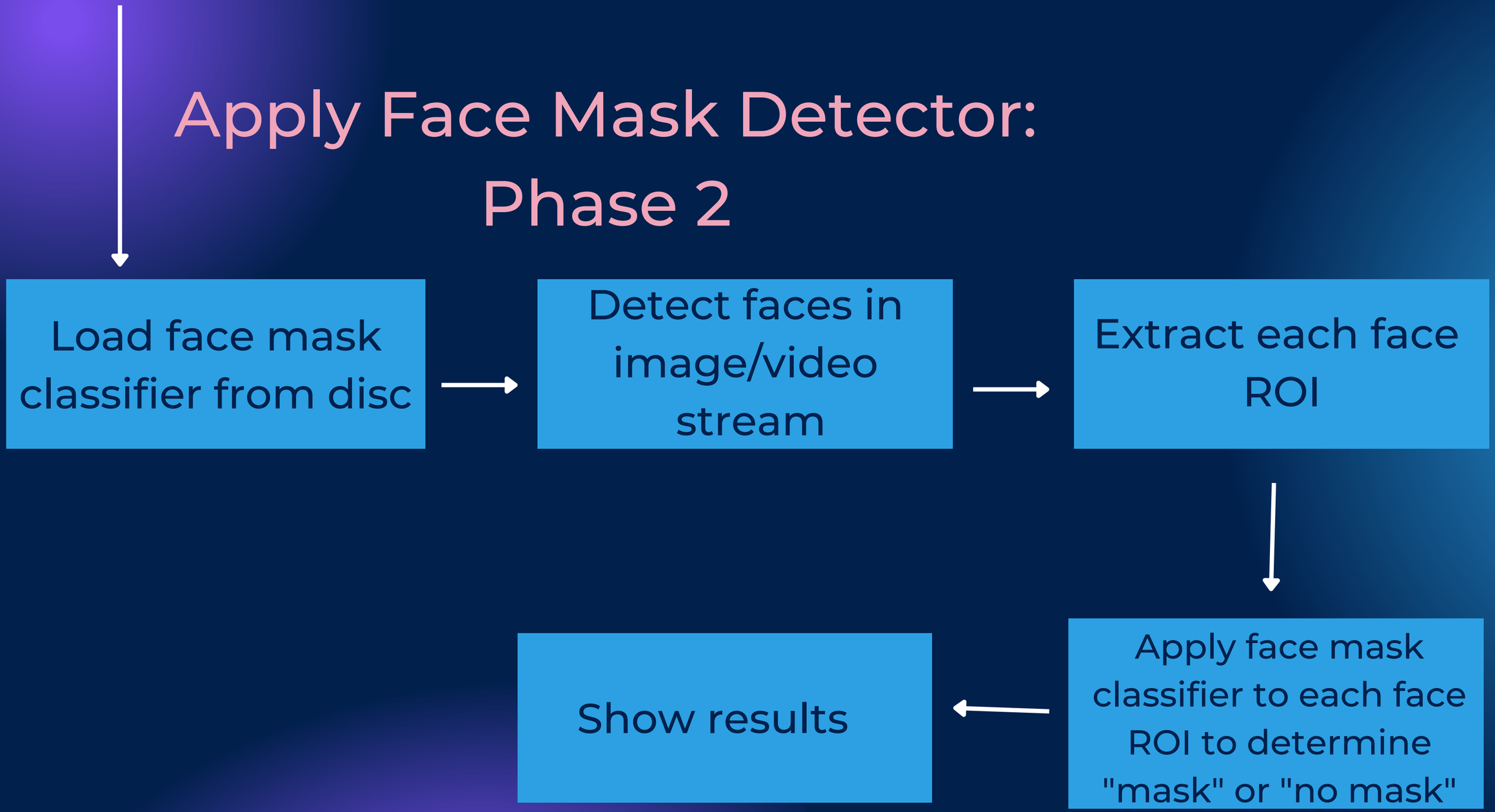
Face Reco hart):



Train Face Mask Detector:
PHASE 1



Apply Face Mask Detector: Phase 2



EXPLAINATION:

1) In this project we use facerecognition and openCV modules for dectecting the face and find face coordinates.

2)Then we give attendance to user(students/teachers/labours) by matching the current face coordinates with previously trained coordinates.

3)By using openpyxl module we place the attendance in the excel sheet with time and without repetition.

4)In this project we use pyQt5 and tkinter for creating the interface .

5)In this project our novelty is we can
recognize the face with or without mask .

6)For mask detection we use tensorflow and keras module.

7)For face detection with or without mask first we should take
the dataset of user face with mask and without mask.

8)This mask detection attendanc will be useful in
covid-!9 periods

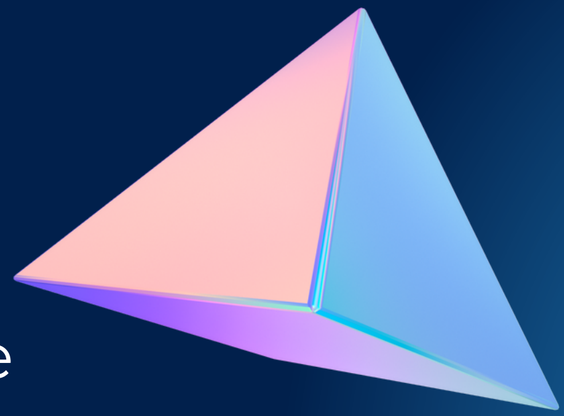
Future goals:

1. If we merge this project with iot devices (arduino) it will detect the face and also it may give sanitaizer to the user.
2. Cloud storage can be used for storing student data.

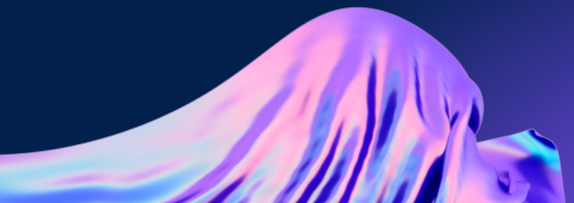
Advantages:

1. It helps us to take attendance in a easy way .
2. It replace old mannual method to automatic method.
3. This mask detection attendance will be helpful during covid 19 periods.

CONCLUSION:



Here i have come to the end of the project on the topic face recognition monitor. This project contains information about face recognition attendance system using face detection module with mask detection using Tensor flow. The thrill involve while tackling the various problem and challenges gave me a fell of the industries. I do hope my project will be interesting and may be even knowledge.



Thank you!