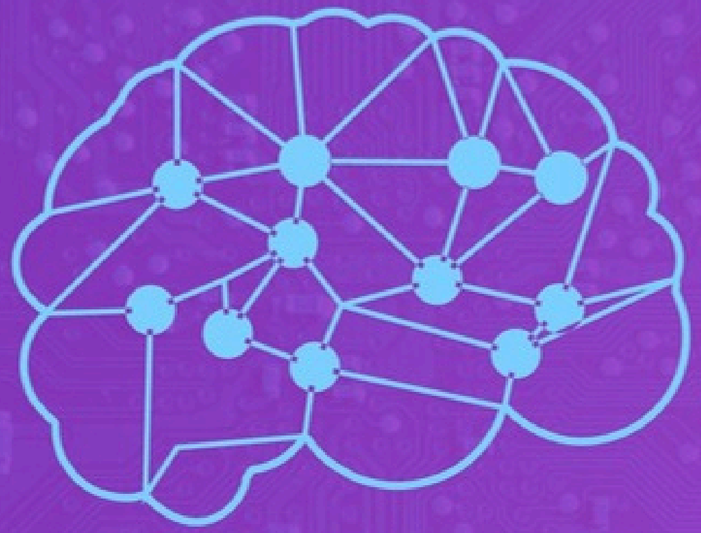
Face Recognition Attendance System

Instructor Rund Muhafdah



ARTIFICIAL INTELLIGENCE

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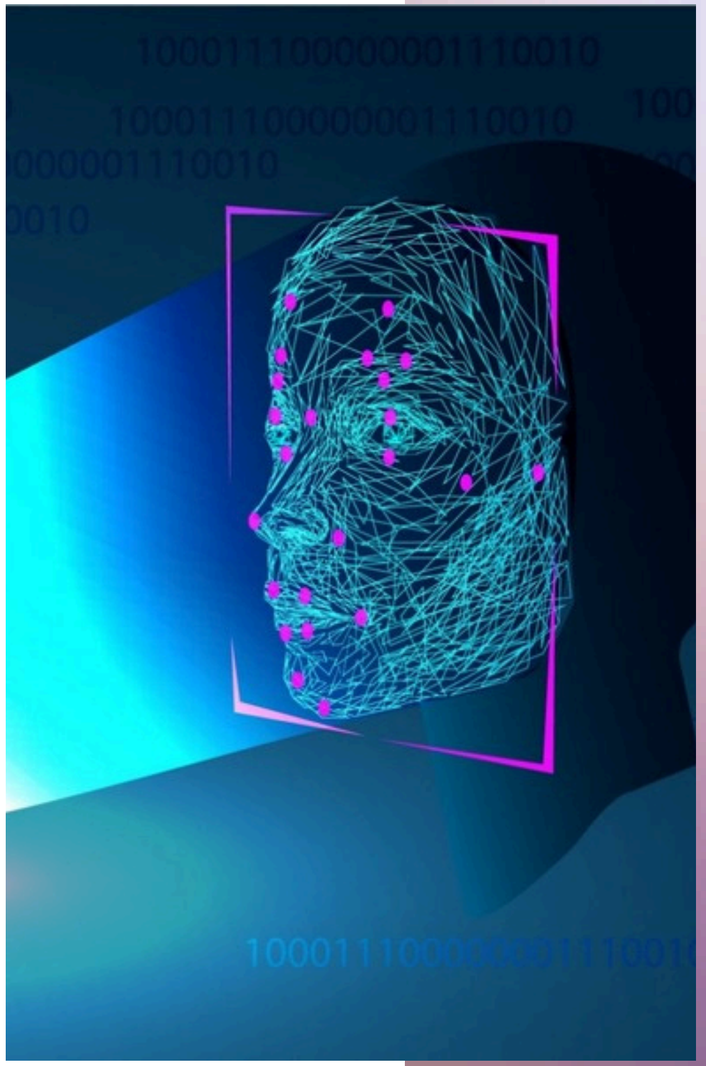


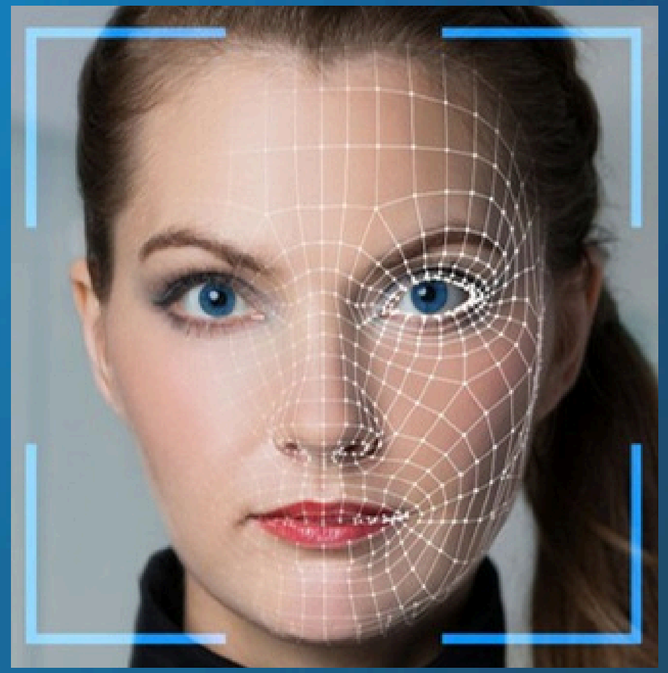
INTRODACTION

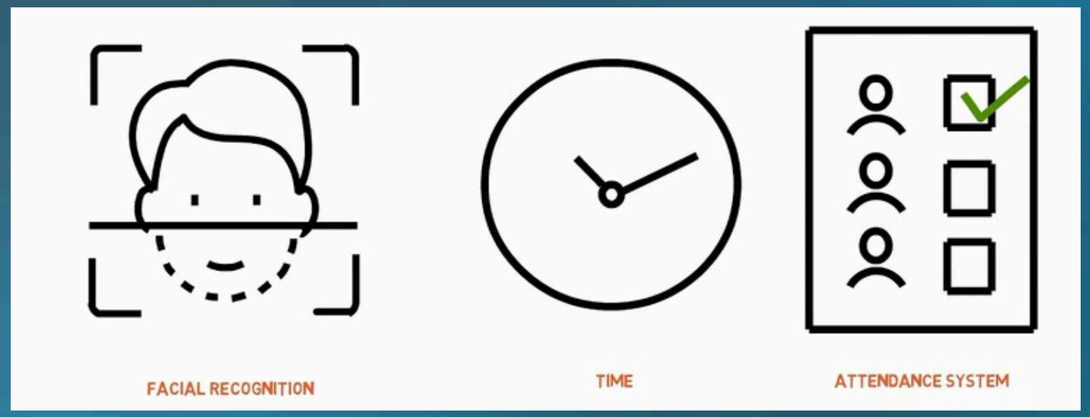
The human face plays an important role in our day-to-day life mostly for the identification of a person.

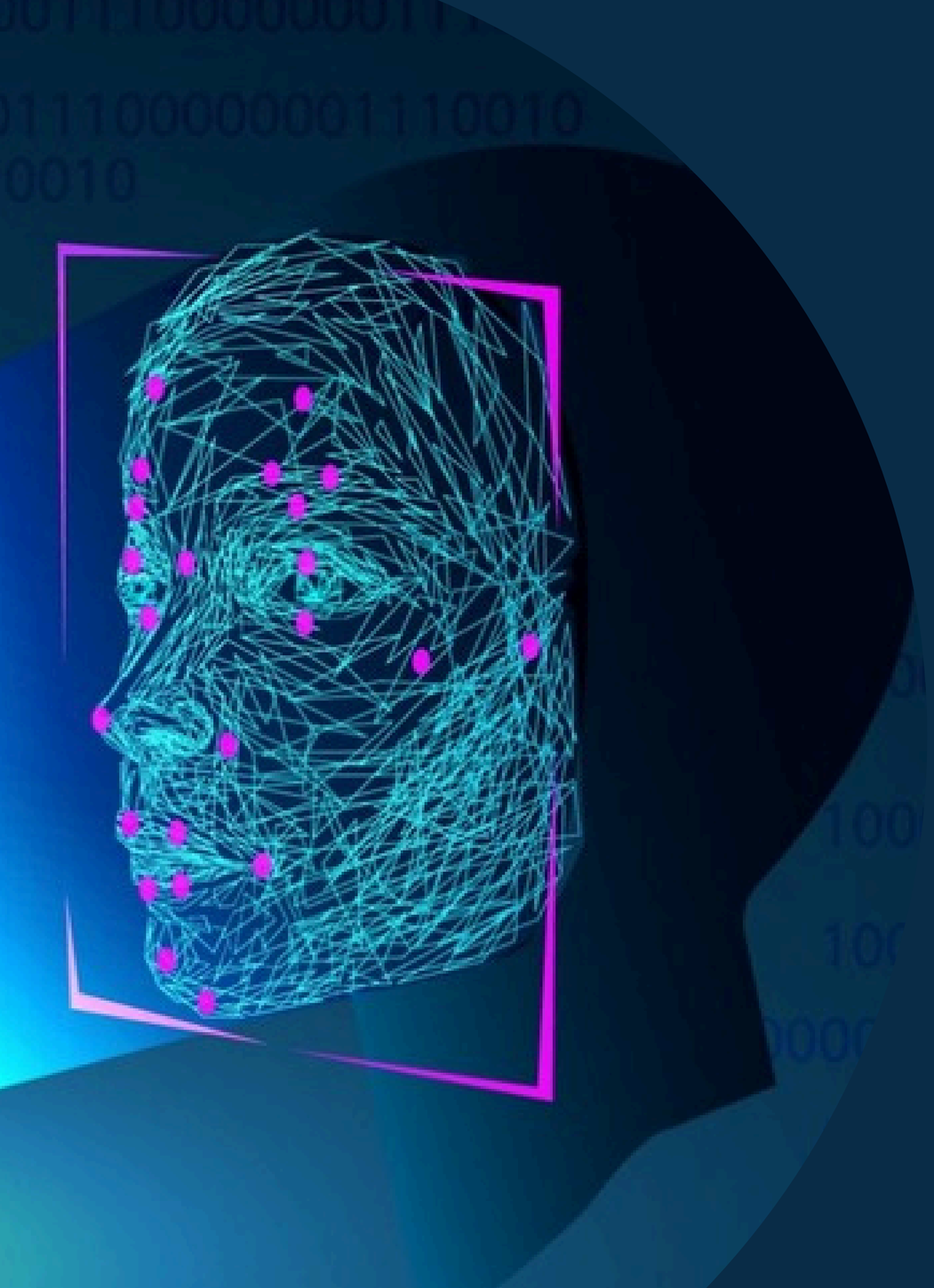
Face recognition is a part of bio-metric identification that extracts the facial features of a face and then stores it as a unique face print to uniquely recognize a person.

AIM OF THE STUDY

The aim of this project is to build a face recognition-based attendance monitoring system for students in university to improve and upgrade the current attendance system to make it more efficient and effective than before.

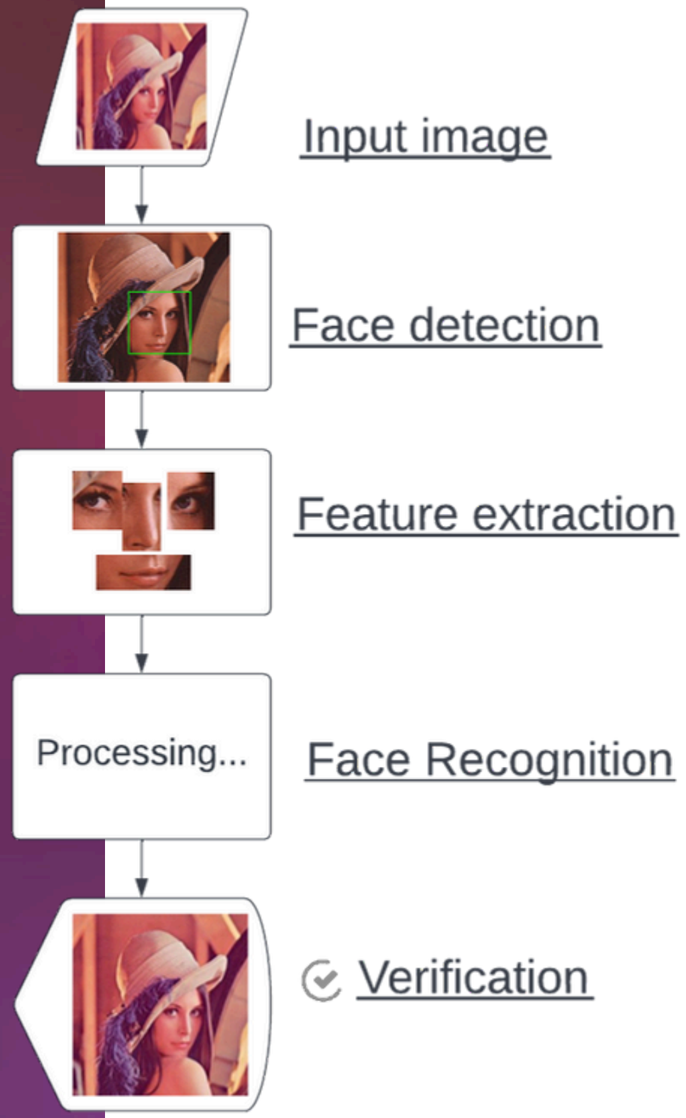




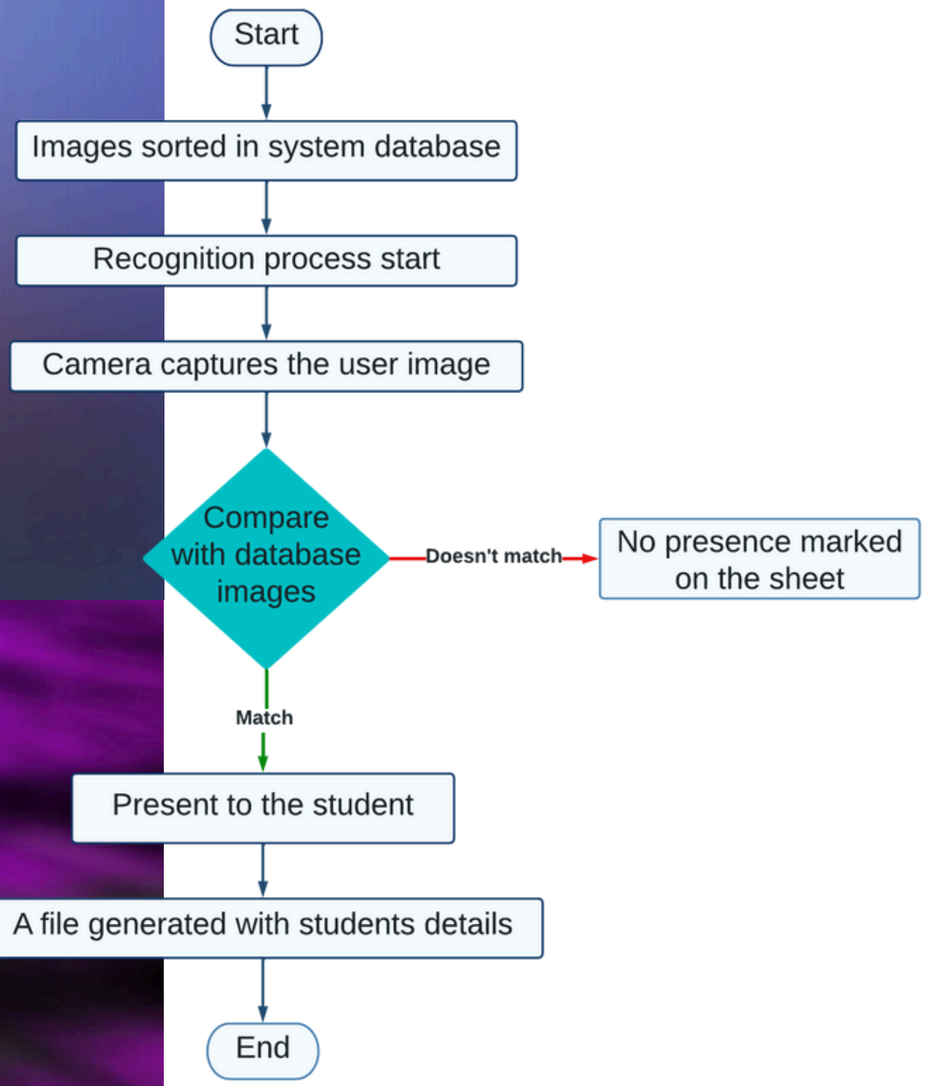


METHODOLOGY

General structure of the face recognition system

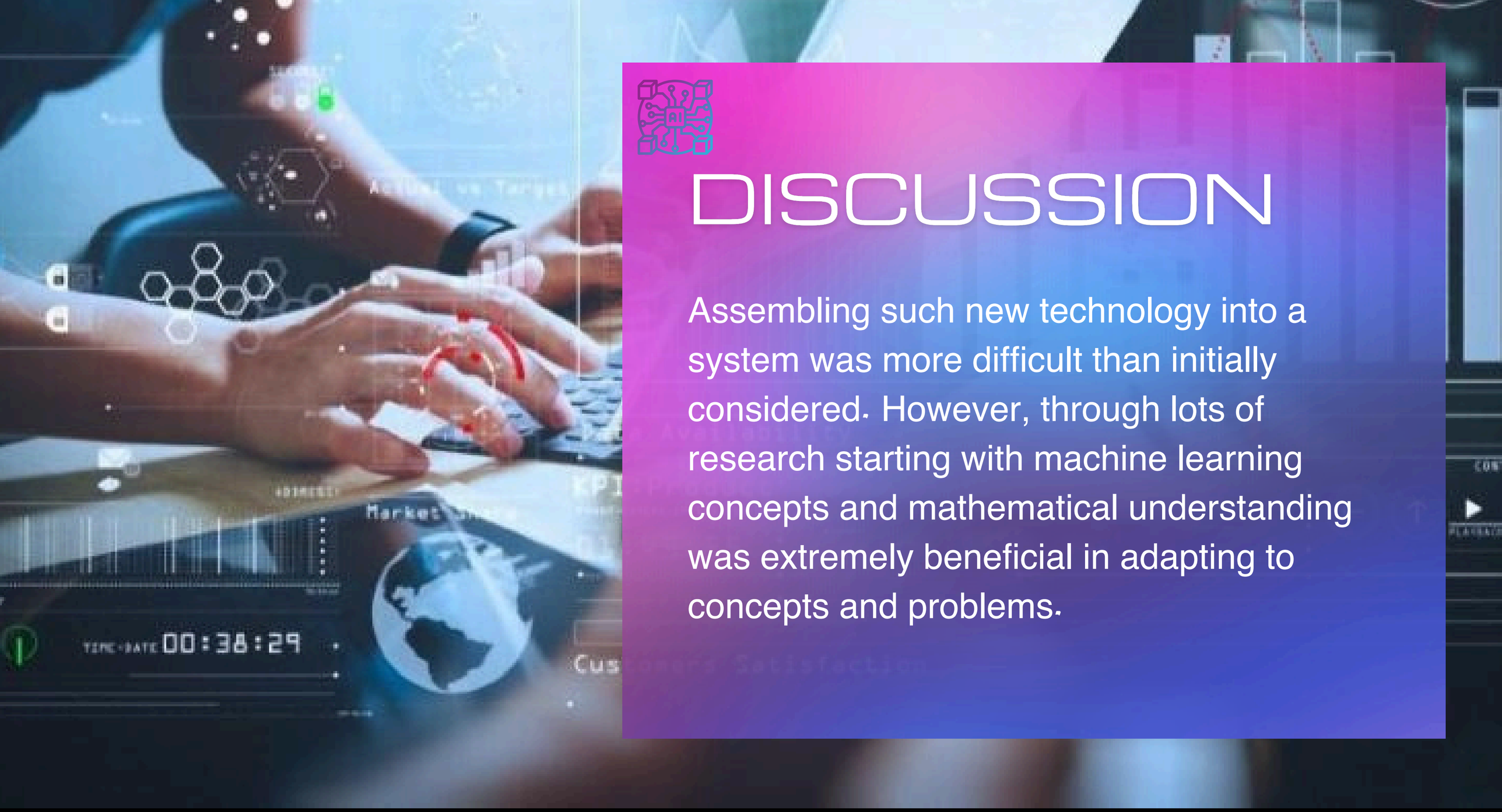


process of the attendance management



RESULTS

1. Assembling the kit
2. Training the model
3. Identifying the face
4. Providing Attendance



DISCUSSION

Assembling such new technology into a system was more difficult than initially considered. However, through lots of research starting with machine learning concepts and mathematical understanding was extremely beneficial in adapting to concepts and problems.

RECOMMENDATIONS

The system can be made more flexible and scalable using these recommendations. The recommendations are as follows:

- The system can be extended to change list of students according to class changes.

- The system can also be extended to allow better face recognition algorithm in which even rotational features of face can be detected efficiently.

Conclusion

This project introduces the efficient and accurate method of attendance in the classroom environment that can replace the old manual methods.
This method is secure enough, reliable and available for use.
No need for specialized hardware for installing the system in the classroom.
It can be constructed using a camera and computer.


THANK YOU