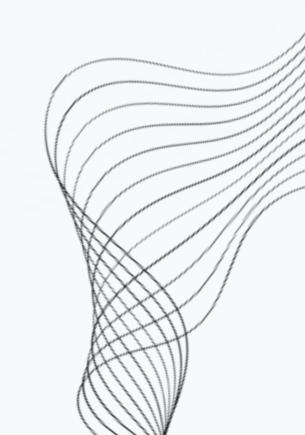


# ATTENDANCE MAINTENDANCE MAINTEN

HRITHIK MHATRE, MEHUL AGRAWAL



### GOALS AND OBJECTIVES

#### **Objective 1**

Develop a Python-based facial recognition system with ML algorithms for accurate face detection and recognition from app-captured photos.

#### **Objective 2**

Implement the system to streamline attendance in classrooms, reading halls, and mess areas, replacing traditional methods for efficient, cost-effective monitoring.



#### Objective 3

Utilize the system to mark attendance in real-time, enhancing overall efficiency and student engagement without requiring physical camera installations.





## WORKING

Capture an Image

Black-b

OX

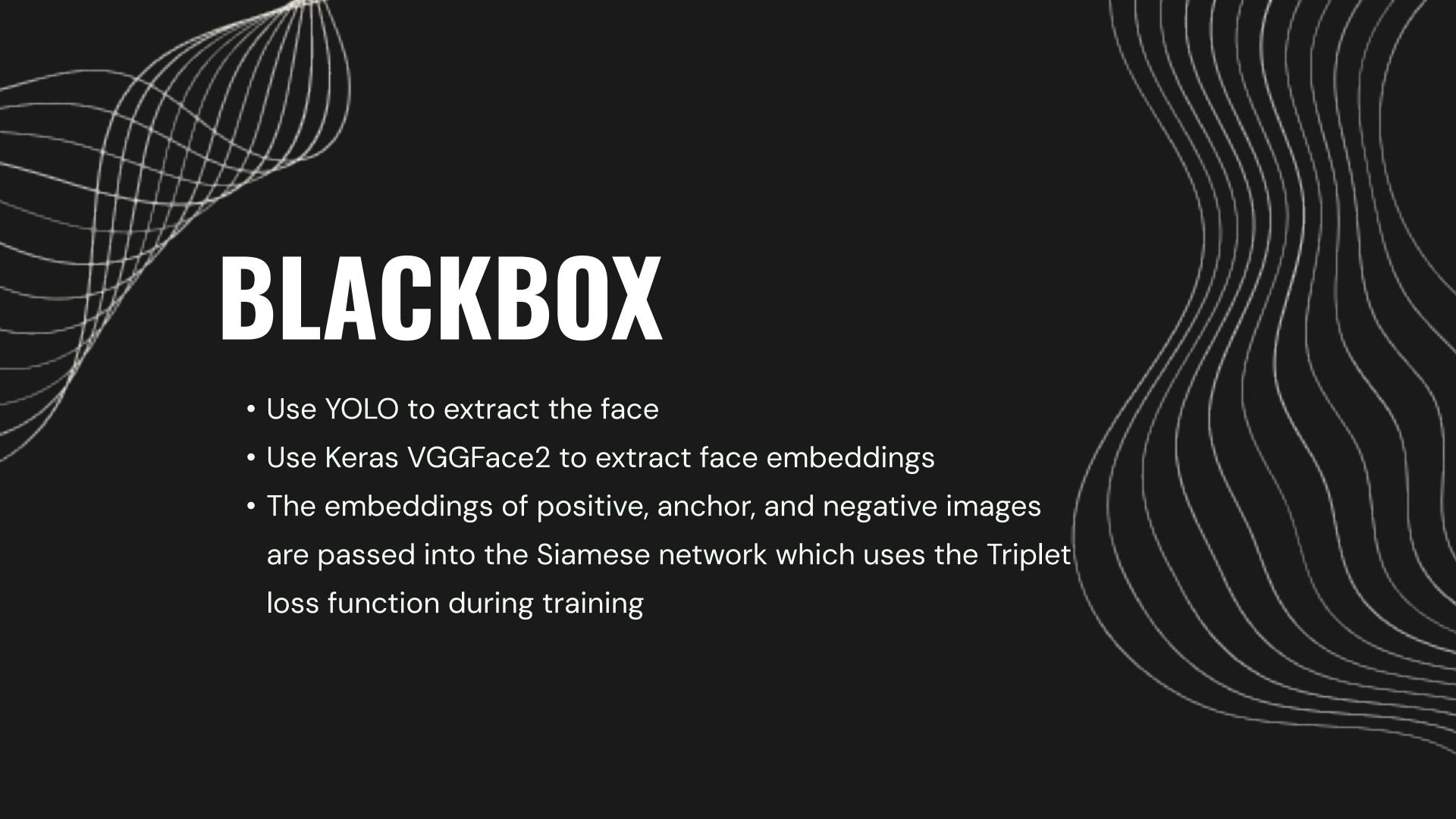
CHECKS IF THE PERSON IS SAME

"Yes"

ATTENDANCE MATCHED

"No"

ATTENDANCE NOT MATCHED



## WORK DONE

01 02 03

#### **CAPTURE IMAGE**

https://colab.research.google .com/drive/1CwRFTdMMSO7ti ShFgHXa\_mqwnxih1qWr?usp =sharing

#### YOLOV8

https://colab.research.google .com/drive/1lwH6pUz-o7FRxx qSYAgUatsNkhYTag6l?usp=s haring

#### **MTCNN**

https://colab.research.google .com/drive/1Mteo8sz1OehoxC Dr4\_ajPtO7Y\_DN8OG-?auth user=1

#### SIAMESE NETWORK

https://colab.research.google .com/drive/1Qg3VNibMj6gUr X1su-hyle2XLq54k6UM?usp= sharing

## FUTURE



#### **TRAINING**

We intend to fine-tune the model on a custom dataset prepared from images of IIT Bombay students



#### **DEPLOYMENT**

We still need to figure out the specifics and look into the deployment of such a model.

Our current focus is training



**BUDGET** 

Our projected budget as of now is O

# THANK YOU

