

## MAJOR PROJECT - 2

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#GITHUB - <https://github.com/PHENOL47/CAT-FACE-OPENCV->

#USING HAARCASCADE FILE TO IDENTIFY AND TRACK CAT FACE

#OPEN CV PROJECT

#PROGRAM TO IDENTIFY AND TRACK CAT FACE

#VIDEO FILE IS GIVEN IN FOLDER

#####

import cv2

#####

#Loading the video file and the haarcascade file

cascade\_src = r"C:\Users\PHENOL\Desktop\ml projects\haarcascade\_frontalcatface.xml"

video\_src = r"C:\Users\PHENOL\Desktop\ml projects\cat video.mp4"

objectName = 'CAT'

#####

cap = cv2.VideoCapture(video\_src) #LOADING THE VIDEO

cat\_cascade = cv2.CascadeClassifier(cascade\_src) #LOADING THE CASCADE FILE

#####

while True:

ret,img = cap.read()

if(type(img)==type(None)):

break

gray = cv2.cvtColor(img,cv2.COLOR\_BGR2GRAY) #CONVERTING IT INTO BLACK AND WHITE

cat = cat\_cascade.detectMultiScale(gray , 1.1 , 4) #FOR TRACKING THE FACE

for (x,y,w,h) in cat:

cv2.rectangle(img,(x,y),(x+w,y+h),(0,0,255),3) #WILL PLACE A RECTANGLE ON CATS FACE

cv2.putText(img,objectName,(x,y-5),cv2.FONT\_HERSHEY\_COMPLEX\_SMALL,1,(0,0,0),2) #WILL

PUT TEXT ON CATS FACE

cv2.imshow('VIDEO',img)

if cv2.waitKey(1)==13: #13 ASCII VALUE OF 'ENTER' KEY

break

cv2.destroyAllWindows()

## OUTPUT -

