

MAJOR PROJECT – 2

CAT FACE DETECTION

NAME : M SRINIVAS

COLLEGE : IIT BHUBANESWAR

YEAR : 2nd YEAR

BRANCH : COMPUTER SCIENCE

GITHUB LINK OF THE PROJECT:

<https://github.com/srinivas1667/RINEX-PROJECTS/tree/main/MAJOR%20PROJECT%202>

Contains : python file, haarcascade file, test video , haarcascade file link

LINK OF THE HAARCASCADE FILE SOURCE:

https://github.com/zhaoyuzhi/Animal-Face-Detectors/blob/master/catface_detection/haarcascade_frontalcatface.xml

SCREENSHOT OF THE CODE:

```
import cv2

cap = cv2.VideoCapture('test_cat_video.mp4')

catfaces_cascade = cv2.CascadeClassifier('haarcascade_frontalcatface.xml')

while True:
    ret, image = cap.read()
    if (type(image) == type(None)):
        break
    gray = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)

    cf = catfaces_cascade.detectMultiScale(gray, 1.1, 3)

    for (x, y, w, h) in cf:
        cv2.rectangle(image, (x, y), (x+w, y+h), (0, 255, 255), 6)

    cv2.imshow('VIDEO', image)

    if cv2.waitKey(1) == 13:
        break

cv2.destroyAllWindows()
```

SCREENSHOT OF THE VIDEO OUTPUT:



