Lab - 5:

Detect Eyes of Cat in picture using OpenCV

Code:

import cv2

import numpy as np

img = cv2.imread('cat1.jpg')

low=[22,59,75]

high=[166,205,215]

hsv = cv2.cvtColor(img, cv2.COLOR\_BGR2HSV)

mask = cv2.inRange(hsv, np.array(low), np.array(high))

contours, \_ = cv2.findContours(mask, cv2.RETR\_EXTERNAL, cv2.CHAIN\_APPROX\_SIMPLE)

min\_area = 100

filtered\_contours = [cnt for cnt in contours if cv2.contourArea(cnt) > min\_area]

for cnt in filtered\_contours:

x, y, w, h = cv2.boundingRect(cnt)

cv2.rectangle(img, (x, y), (x+w, y+h), (0, 255, 0), 2)

cv2.imshow('cat with detected eyes', img)

cv2.imshow('Eyes', mask)

cv2.waitKey(0)

cv2.destroyAllWindows()

 INPUT OUTPUT