import cv2

import mediapipe as mp

import pyautogui

cam=cv2.VideoCapture(0)

face\_mesh=mp.solutions.face\_mesh.FaceMesh(refine\_landmarks=True)

screen\_w,screen\_h=pyautogui.size()

while True:

\_, frame = cam.read()

frame=cv2.flip(frame,1)

rgb\_frame = cv2.cvtColor(frame,cv2.COLOR\_BGR2RGB)

output = face\_mesh.process(rgb\_frame)

landmark\_points = output.multi\_face\_landmarks

frame\_h, frame\_w, \_ = frame.shape

if landmark\_points:

landmarks = landmark\_points[0].landmark

for id, landmark in enumerate(landmarks[474:478]):

x = int(landmark.x \* frame\_w)

y = int(landmark.y \* frame\_h)

cv2.circle(frame,(x,y),3,(0,255,0))

if id==1:

screen\_x=screen\_w/frame\_w\*x

screen\_y=screen\_h/frame\_h\*y

pyautogui.moveTo(screen\_x,screen\_y)

left=[landmarks[145],landmarks[159]]

for landmark in left:

x = int(landmark.x \* frame\_w)

y = int(landmark.y \* frame\_h)

cv2.circle(frame, (x, y), 3, (0, 255, 255))

if(left[0].y - left[1].y)<0.00004:

pyautogui.click()

pyautogui.sleep(1)

cv2.imshow('Eye Controlled Mouse', frame)

cv2.waitKey(1)