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import cv2
import mediapipe as mp
import pyautoqui
def smooth(coordinates, alpha=0.5):
    if not hasattr(smooth, 'previous coordinates'):
        smooth.previous coordinates = coordinates
    smoothed_coordinates = []
    for (x, y), (prev_x, prev_y) in zip(coordinates,
smooth.previous coordinates):
        smoothed x = int(prev x * alpha + x * (1 - alpha))
        smoothed y = int(prev y * alpha + y * (1 - alpha))
        smoothed coordinates.append((smoothed x, smoothed y))
    smooth.previous coordinates = smoothed coordinates
    return smoothed coordinates
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
        # Update the range to 468, which is the correct number of
landmarks
        coordinates = [(int(landmark.x * frame w), int(landmark.y *
frame_h)) for landmark in landmarks[:468]]
        smoothed coordinates = smooth(coordinates)
        for (x, y) in smoothed coordinates:
            cv2.circle(frame, (x, y), 3, (0, 255, 0))
        x, y = smoothed coordinates[1] # Index 1 is the control point
        # Adjust the click threshold as needed
        click threshold = 5
        if abs(coordinates[145][1] - coordinates[159][1]) <
click threshold:
            pyautoqui.click()
            pyautogui.sleep(0.2) # Add a small delay for the click
action
```

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screen_x = int(screen_w * x / frame_w)
    screen_y = int(screen_h * y / frame_h)
    pyautogui.moveTo(screen_x, screen_y)

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

# Exit the loop when 'q' key is pressed
if cv2.waitKey(1) & 0xFF == ord('q'):
    break

# Release the camera and destroy OpenCV windows
cam.release()
cv2.destroyAllWindows()
```