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# 18BCS6201-CV Practical-5 (B) (Gauri Prabhakar) (AI-ML-2)(A)
import cv2
import mediapipe as mp
cap=cv2.VideoCapture(r"C:\Users\gauri\Desktop\OpenCV Media\hands.mp4")
# Importing 'mp.solutions.hands' to a variable 'mpsh'.
mpsh=mp.solutions.hands
# Declaring the object 'hands' from 'mp.solutions'.
hands=mpsh.Hands()
mpsdu=mp.solutions.drawing_utils
while True:
   success, frame=cap.read()
   frame_RGB=cv2.cvtColor(frame, cv2.COLOR_BGR2RGB)
   # Detecting hands in the frame using the function 'hands.process()'.
   results=hands.process(frame RGB)
   #print(results.multi hand landmarks)
   if results.multi hand landmarks:
       for handLms in results.multi_hand_landmarks:
           for id, lm in enumerate(handLms.landmark):
               print(id, lm)
               h,w,c=frame.shape
               cx,cy=int(lm.x*w), int(lm.y*h)
                cv2.putText(frame, str(int(id)), (cx + 10, cy + 10), cv2.FONT_HERSHEY_COMPLEX_SMALL,
               print(id, cx, cy)
               cv2.circle(frame, (cx,cy), 10, (31,79,254), cv2.FILLED)
       mpsdu.draw_landmarks(frame, handLms, mpsh.HAND_CONNECTIONS)
       cv2.imshow("Hand Tracking", frame)
       cv2.waitKey(1)
```