



## **Practical-6**

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Branch: 18AITAIML-2 Section/Group: B

Semester: 7 Date of Performance: 12th October, 2021

Subject Name: Computer Vision Lab Subject Code: CSF - 432

## 1. Aim/Overview of the practical:

To implement pose detection using mediapipe in python and OpenCV.

#### 2. Task to be done:

To implement pose detection using mediapipe in python and OpenCV.

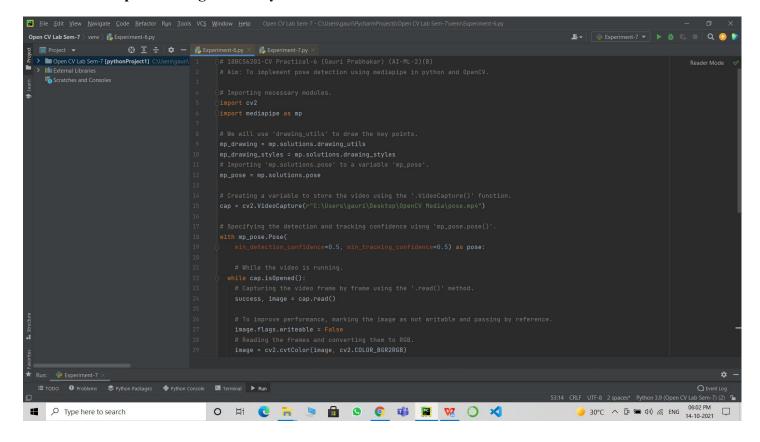
### 3. Steps to be followed:

- 1. Importing necessary modules.
- 2. We will use 'drawing utils' to draw the key points.
- **3.** Importing 'mp.solutions.pose' to a variable 'mp pose'.
- **4.** Creating a variable to store the video using the '.VideoCapture()' function.
- **5.** Specifying the detection and tracking confidence uisng 'mp pose.pose()'.
- **6.** While the video is running.
- 7. Capturing the video frame by frame using the '.read()' method.
- **8.** To improve performance, marking the image as not writable and passing by reference.
- **9.** Reading the frames and converting them to RGB.
- 10. Detecting poses in the frame using the function 'pose.process()'.
- 11. Drawing the pose annotations on the image.
- 12. Reading the frames and converting them to RGB.
- 13. Connecting the key points using the function 'mp\_drawing.draw\_landmarks()'.

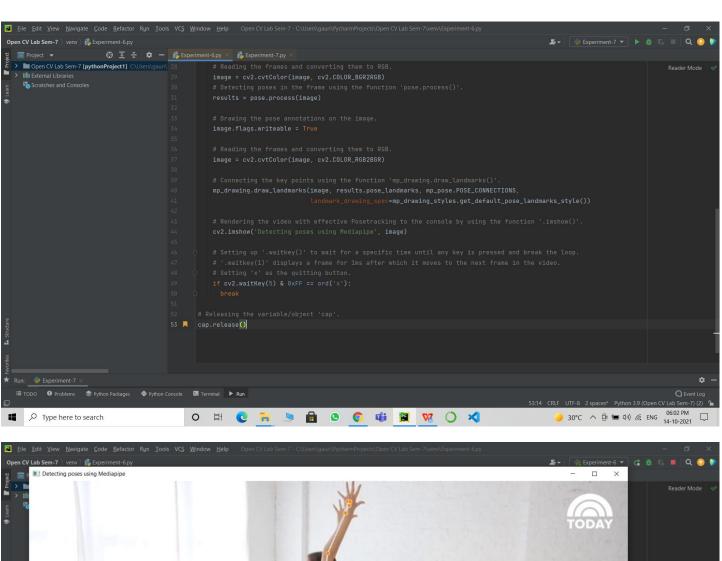


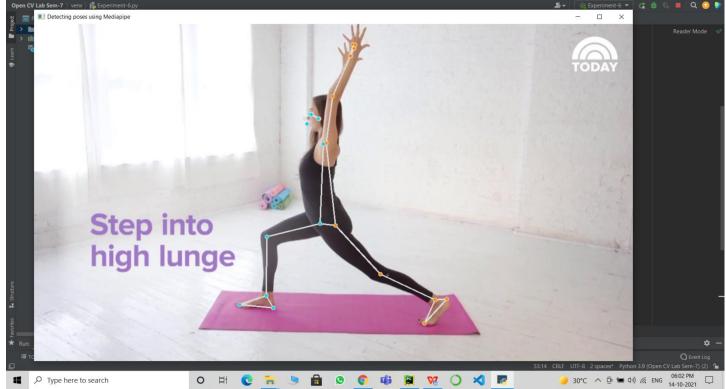
- **14.** Rendering the video with effective Posetracking to the console by using the function '.imshow()'.
  - 15. Setting up '.waitkey()' to wait for a specific time until any key is pressed and break the loop.
  - 16. '.waitkey(1)' displays a frame for 1ms after which it moves to the next frame in the video.
  - 17. Setting 'x' as the quitting button.
  - 18. Releasing the variable/object 'cap'.

## 4. Result/Output/Writing Summary:











## **5.** Learning outcomes (What I have learnt):

- Open CV modules.
- The mediapipe library.
- Detect poses using the mediapipe library.
- Pose tracking a saved video.
- Highlighting key points.

# Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			

