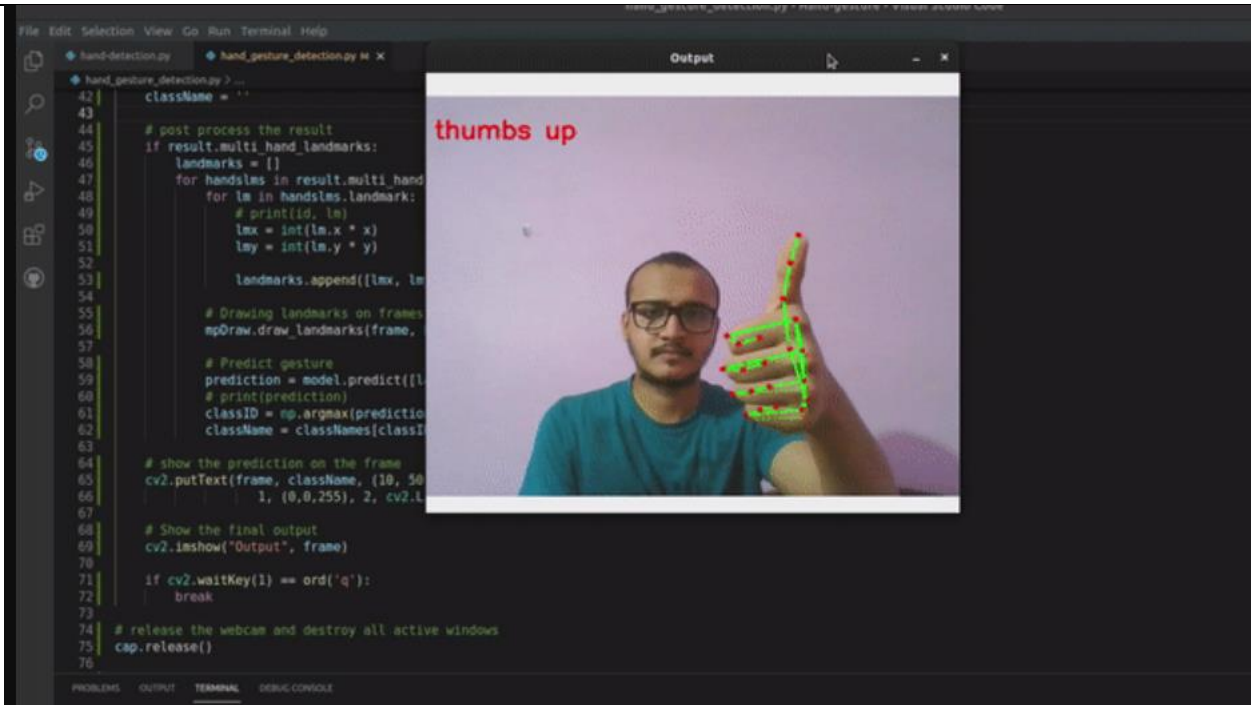


## Project Development Phase Model Performance Test

Date	13 November 2022
Team ID	PNT2022TMID322000
Project Name	Real time communication powered by AI for specially abled
Maximum Marks	10 Marks

### Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Model Summary	-	 <p>The screenshot displays a hand gesture detection application. On the left, a code editor shows the following Python code:</p> <pre> 42   className = '' 43   44   # post process the result 45   if result.multi_hand_landmarks: 46       landmarks = [] 47       for hands in result.multi_hand_landmarks: 48           for lm in hands.landmark: 49               # print(lm.x, lm.y) 50               lmx = int(lm.x * x) 51               lmy = int(lm.y * y) 52               landmarks.append([lmx, lmy]) 53   54   # Drawing landmarks on frames 55   mpDraw.draw_landmarks(frame, landmarks, mpHandLandmarks[4]) 56   57   # Predict gesture 58   prediction = model.predict([landmarks]) 59   # print(prediction) 60   classID = np.argmax(prediction) 61   className = classNames[classID] 62   63   # show the prediction on the frame 64   cv2.putText(frame, className, (10, 50), cv2.FONT_HERSHEY_SIMPLEX, 1, (0, 0, 255), 2, cv2.LINE_AA) 65   66   # Show the final output 67   cv2.imshow("Output", frame) 68   69   if cv2.waitKey(1) == ord('q'): 70       break 71   72   # release the webcam and destroy all active windows 73   cap.release() 74   75   cv2.destroyAllWindows() 76   </pre> <p>On the right, a video feed shows a person's hand with green dots representing landmarks. The text "thumbs up" is overlaid in red, indicating the predicted gesture.</p>

2.	Accuracy	<p>Training Accuracy - 85</p> <p>Validation Accuracy - 80</p>	 <p>The image displays a software interface titled "Sign Language Detection". It features a 5x9 grid of 45 hand gesture icons. In the center of the grid is a video feed of a person with long dark hair and glasses, making a hand gesture. A red bounding box is drawn around the person's hand in the video feed, and a red text label "Indicates G" is positioned below it. The grid of icons surrounds the video feed, with some icons appearing to be highlighted or selected.</p>
----	----------	---	--

