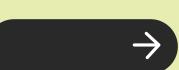


RESULTS



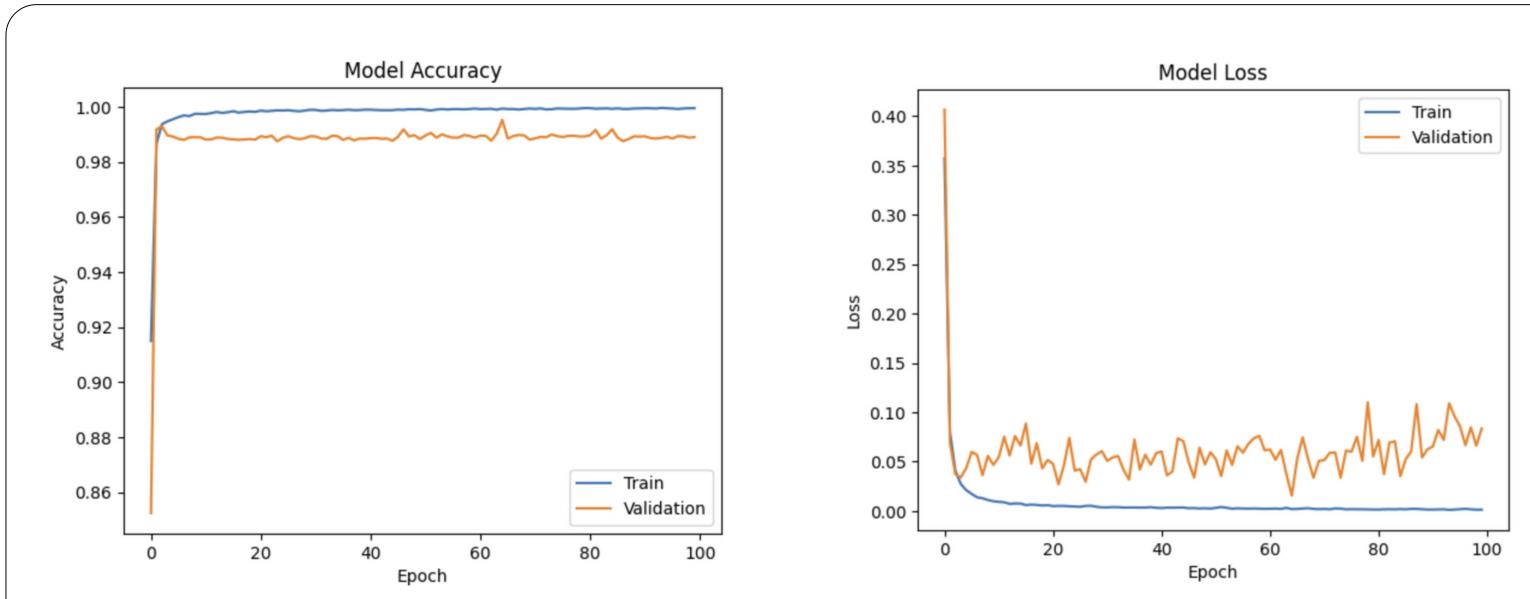
Pose Detection And Feedback Generation For Different Yoga Asanas





Training and Validation Accuracy



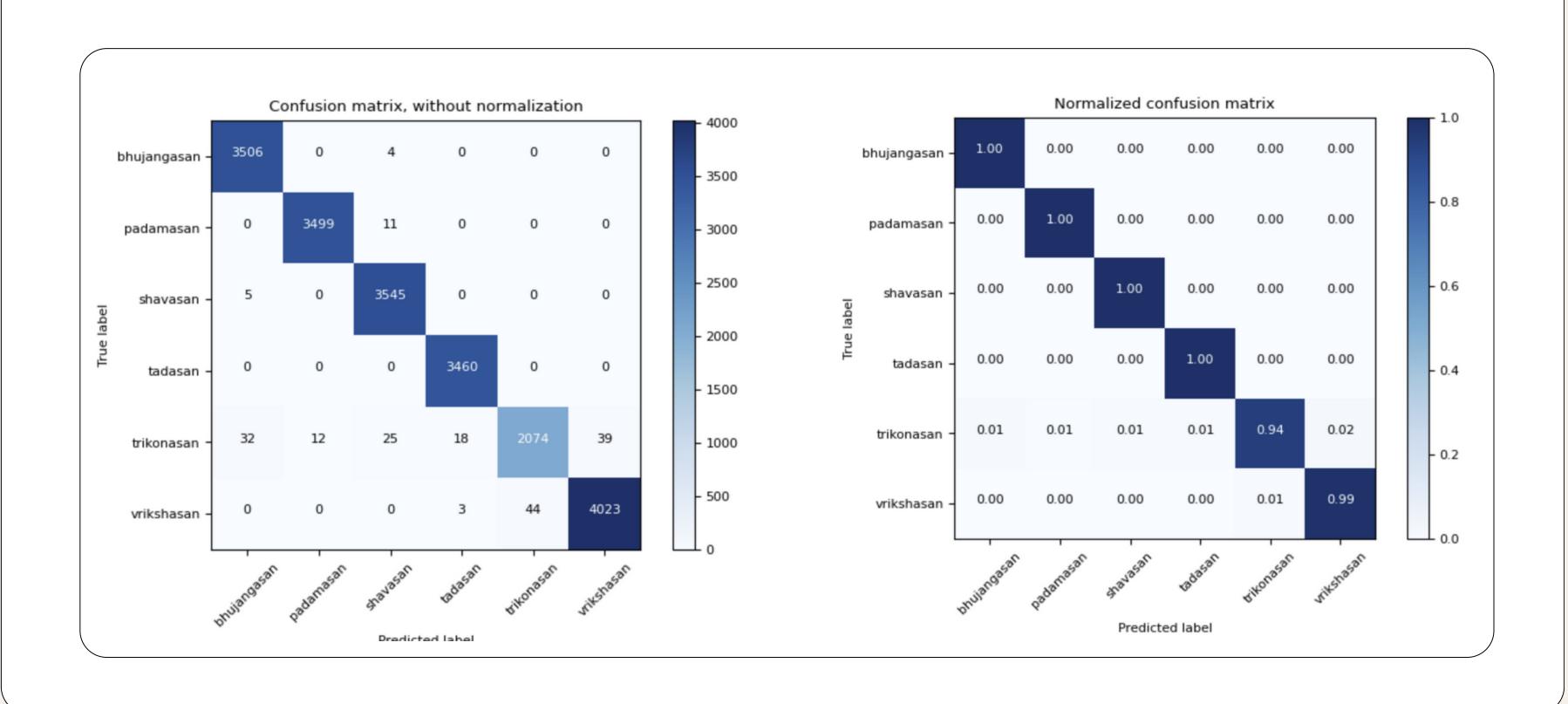


Achieved framewise accuracy of 99.05%. Employing polling techniques further improved accuracy to an impressive 99.66%.



Confusion Matrix



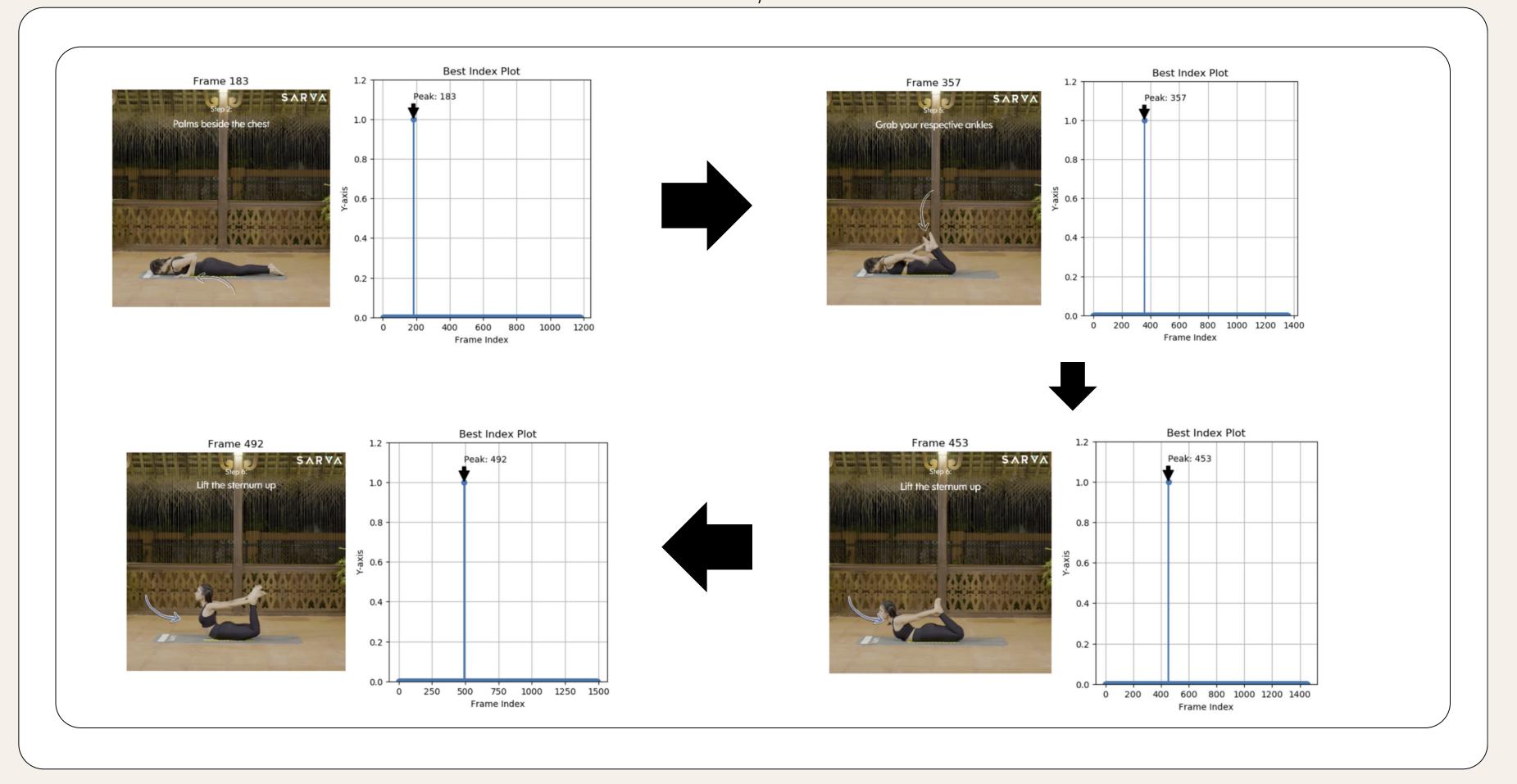


Classification of Yoga Asanas

```
X
```

```
if m==nof:
     break
1/1 [========== ] - Øs 17ms/step
Prediction is shavasan
1/1 [======= ] - 0s 17ms/step
Prediction is shavasan
1/1 [======= ] - 0s 58ms/step
Prediction is shavasan
Prediction is shavasan
Prediction is shavasan
1/1 [======== ] - 0s 18ms/step
Prediction is shavasan
1/1 [======= ] - 0s 20ms/step
Prediction is shavasan
Prediction is shavasan
```

Demonstration of the Closest/Best frames on test video





Feedback Generation

```
Frame 3
Feedback for Frame 3:
left shoulder - incorrect angle. Rotate 24 degrees for left shoulder.
right shoulder - incorrect angle. Rotate 22 degrees for right shoulder.
left elbow - incorrect angle. Rotate 109 degrees for left elbow.
right elbow - incorrect angle. Rotate 112 degrees for right elbow.
left hip - incorrect angle. Rotate 7 degrees for left hip.
right hip - correct angle
left knee - correct angle
right knee - incorrect angle. Rotate 4 degrees for right knee.
Frame 6
Feedback for Frame 6:
right knee - incorrect angle. Rotate 25 degrees for right knee.
```



Thank You!