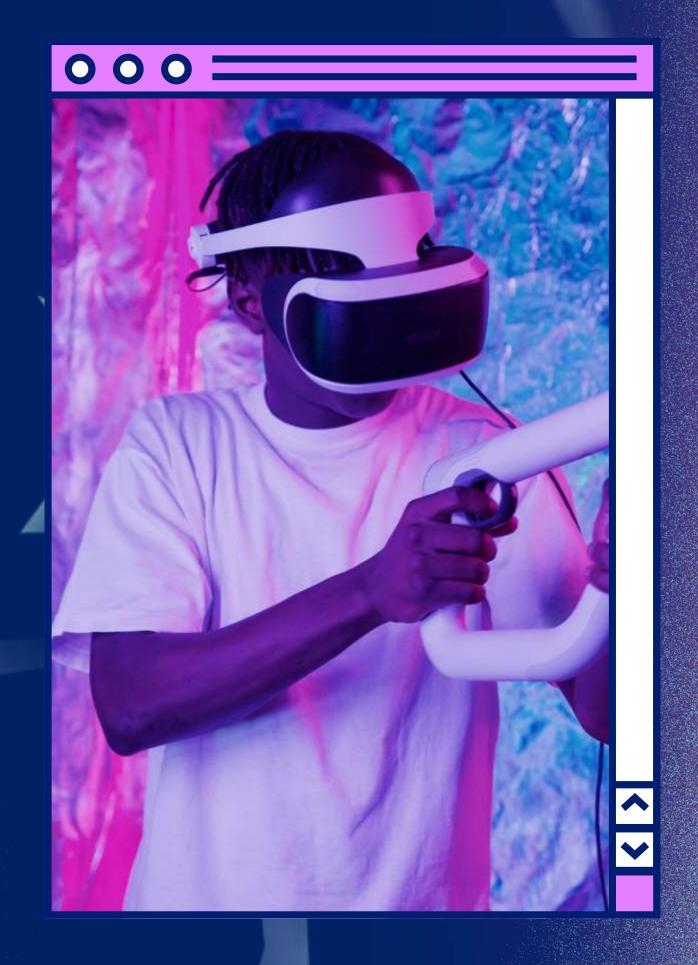
# TECKBENDING COUNTER

UNDER THE GUIDANCE OF

ABHIMANYU SIR

(PHD SCHOLAR)





GROUP MEMBERS

- 1 AYUSH PANDEY
- DEVENDRA SRIVASTAVA
- 3 HARSHIT SENGAR
- 4 RITIKA MISHRA
- 5 SHABAN SARTAJ



#### SCRIPTING LANGUAGE - PYTHON

#### **MEDIAPIPE**

open-source framework for building computer pipelines to perform computer vision in inference over arbitrary.

Sensory data such as audiovideo.

#### **OPEN-CV**

open source compwer vision library

#### **FUNCTION**

- IMAGE PROCESSING
- VIDEO PROCESSING
- OBJECT DETECTION

#### STEPS TO APPROACH THE PROJECT

STAGE - I

VIDEO FEEDING (MEDIAPIPE

FEED)

STAGE - II

STEP-UP MEDIAPIPE

INSTANCE

STAGE - III

EXTRACTING 33 LANDMARK (SKELETAL STRUCTURE OF

BODY)

STAGE - IV

RENDER DETECTION (RENDER SKELETON JOINT)

STAGE - V

3 PRIMARY PARAMETERS

1.LEFT EAR

2.RIGHT EAR

3.NOSE

(CO-ORDINATES,ANGLE,A,B,C)

STAGE - VI

1.DETECT IMAGE
2.EXTRACT LANDMARKS
3.CO-ORDINATE --- ANGLE AND
NECK BENDING
4.VISUALIZE ANGLE

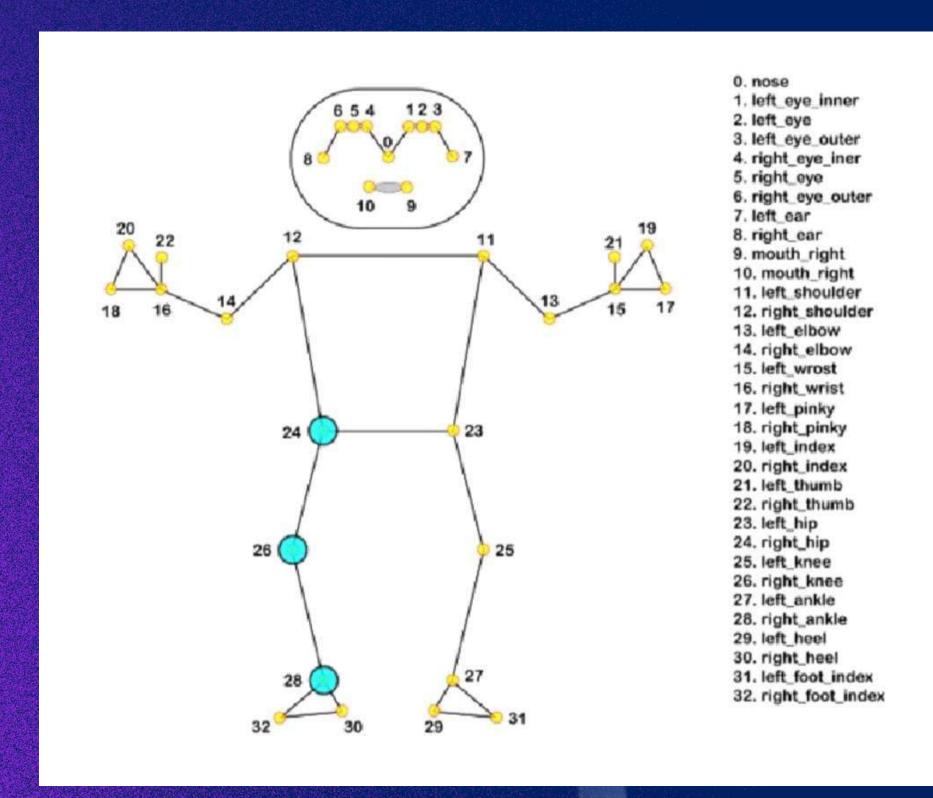
5.RENDER DETECT

#### STAGE - VII

# CURL COUNTER LOGIC IF ANGLE > 120; STAGE = RIGHT IF ANGLE <30 AND STAGE =="RIGHT": STAGE="LEFT" COUNTER+=1; PRINT ("NO. OF NECK BENDING MOVE",(COUNTER)/2) SHOW THE RESULT AND OUTPUT

STAGE - VIII

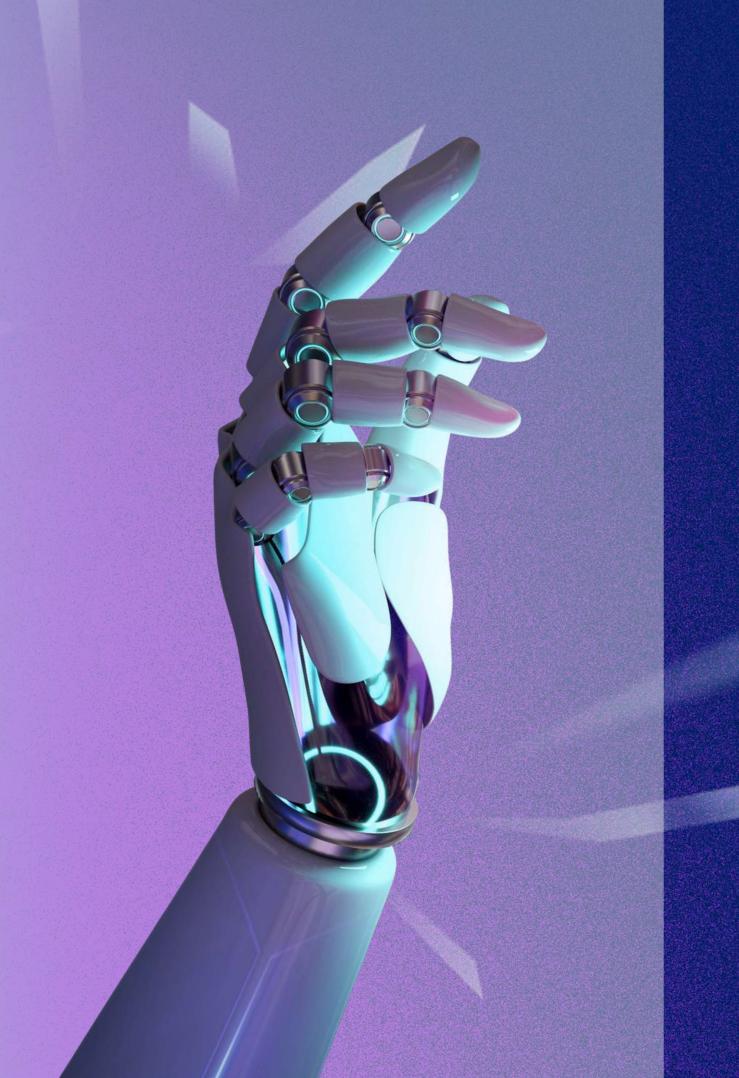
#### 33 POSES LANDMARK DETECTION



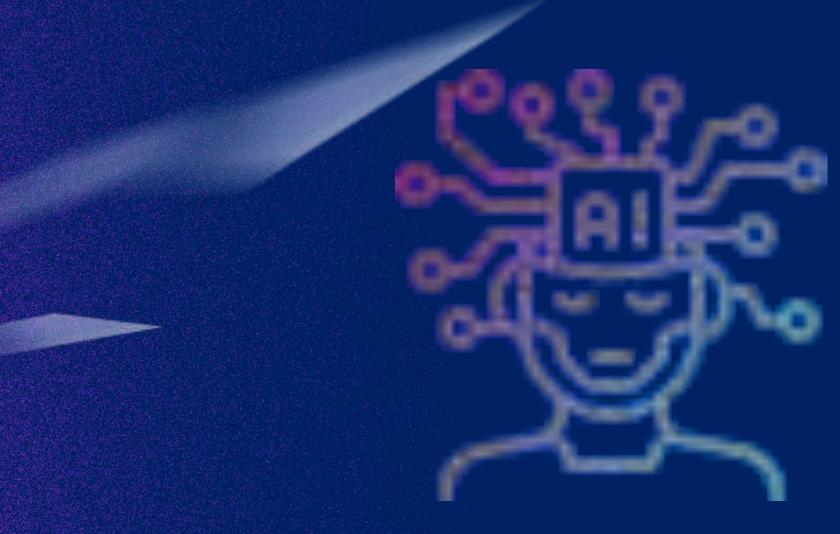


- •POSTURE CORRECTION
- •NECK PAIN RELIEF
- ENCHANCE SPORTS MANAGEMENT





### DISCUSSION



## THANK YOU!

