**Ai Project in Group Assignment**

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**Subject : COMPUTER VISION**

**Submit to : DR. SANDAR ALI KHUWAJA**

**Volume control system using Gestures**

In this project we are going to learn how to use Gesture Control to change the volume of a computer.

We first look into hand tracking and then we will use the hand landmarks to find gesture of our hand to change the volume.

**Features**

\* Can change your computer's volume based on your hand activity

\* Can track your hand in real-time

**How to use**?

Step 1:

Clone this repository on your local computer

Step 2:

Install all the requirements

`pip install -r requirements.txt`

Step 3:

Run the program

`python control.py`

You might have to wait for sometime usually 1-2 minutes for program to start and work properly.

**Facing issue or Error**

You might face issue with webcam not showing or something related to webcam.

To solve it just change the value/webcam from python files.

`cv2.VideoCapture(0)`

You can increment the number `0` until you see your webcam.

**Thank you**

**Tool and Requirement**

absl-py=0.13.0

attrs=21.2.0

mediapipe=0.8.5

MouseInfo=0.1.3

numpy=1.20.3

opencv-contrib-python=4.5.2.54

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Pillow=8.2.0

protobuf=3.17.3

PyAutoGUI=0.9.52

PyGetWindow=0.0.9

PyMsgBox=1.0.9

pynput=1.7.3

pyperclip=1.8.2

PyRect=0.1.4

PyScreeze=0.1.27

PyTweening=1.0.3

six=1.16.0