**Gesture Control using Mediapipe and OpenCV**

This project uses Mediapipe and OpenCV to recognize hand gestures and control media playback, volume, and screen brightness. It's a fun and interactive way to control your computer using hand gestures.

**Requirements**

* Python 3.7 or later
* OpenCV 4.10.0 or later
* Mediapipe 0.10.14 or later
* PyAutoGUI 0.9.54 or later
* screen\_brightness\_control 0.23.0 or later

**Installation**

* Clone the repository using git clone
* Install the required packages using pip install -r requirements.txt
* Make sure you have a working webcam and a compatible operating system (Windows, macOS, or Linux)

**Usage**

* Run the script using python major.py
* Make sure your webcam is turned on and you're in a well-lit environment

**Use the following hand gestures to control your computer:**

Gesture Controls Gesture Action

Right Hand Palm Play/Pause

Both Hands Fist Mute/Unmute

Right Hand Two Fingers Up Decrease Brightness

Left Hand Two Fingers Up Increase Brightness

Left hand Index Finger Right Side Point Skip Forward

Left hand Index Finger Left Side Point Rewind

Pinch Right Hand Thumb And Index Finger Volume Up

Pinch Right Left Thumb And Index Finger Volume Down

**Features**

* Hand gesture recognition using Mediapipe
* Media playback control using PyAutoGUI
* Volume control using PyAutoGUI
* Screen brightness control using screen\_brightness\_control
* Support for multiple hand gestures

**Troubleshooting**

* Make sure your webcam is turned on and you're in a well-lit environment
* If you're experiencing issues with hand gesture recognition, try adjusting the lighting or using a different webcam
* If you're experiencing issues with media playback or volume control, try restarting the script or checking your system settings