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ellf operation MINURE 2 :
mirror mod use y - False
mirror mod use z - True

mirror_ob.select=1 modifier_ob.select=1 bpy.context.scene.objects.active = modifier_ob print("Selected" + str(modifier_ob)) # modifier

Pixel project







Our Team



Ahmed Gamel



Mohamed Elsayed

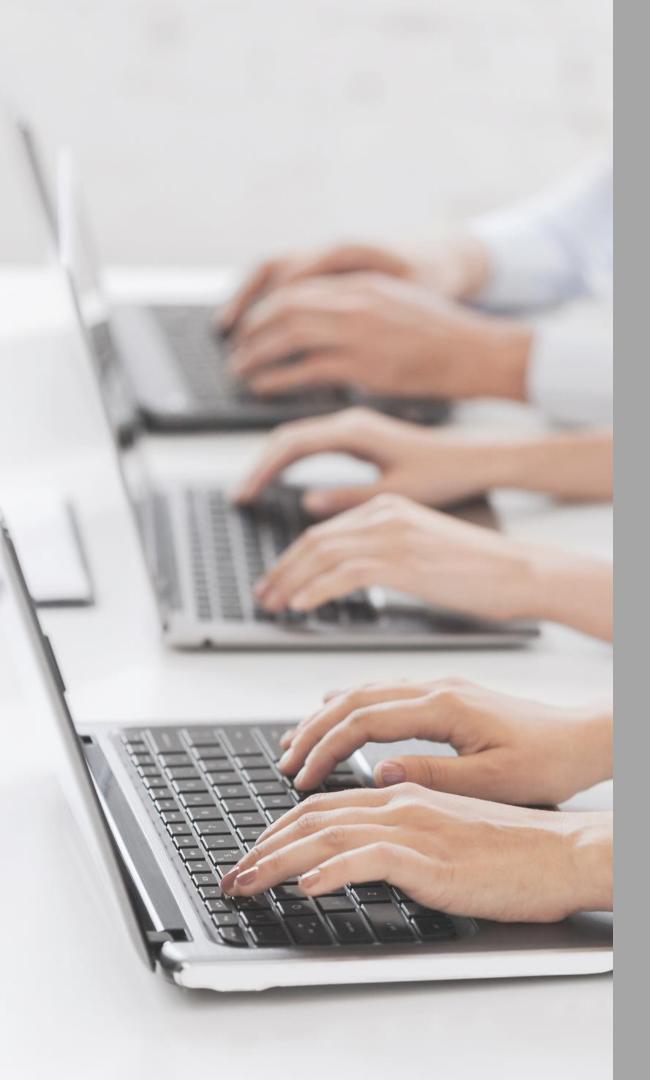


Mariam Ahmed



Wafaa Rafek





Project features and overview

The project features a graphical user interface with four buttons, each serving a specific purpose to enhance user interaction.

- Face Detection: Utilizes computer vision algorithms to identify and locate human faces in images or live video streams, applicable in security systems and human-computer interaction.
- Color Detection: Employs computer vision techniques to identify and analyze colors within images or videos, useful in image processing, quality control, and assisting color-related visual impairments.
- Volume Control: Dedicated button for adjusting audio output levels, providing convenient volume management in multimedia applications.
- Virtual Keyboard: Introduces a virtual keyboard for text input, offering an accessible alternative to physical keyboards in diverse scenarios.



Libraries and Dataset



Libraries

- cv2
- Numpy
- mediapipe
- cvzone

- pandas
- math
- ctypes
- tkinter



Dataset

The dataset includes color gradients with corresponding color names, represented in both hexadecimal and RGB formats.

This data is utilized for accurate color identification and application in image processing, ensuring precise handling of colors within images.





Choose and enjoy!

★ FACE DETECTION

© COLOR DETECTION

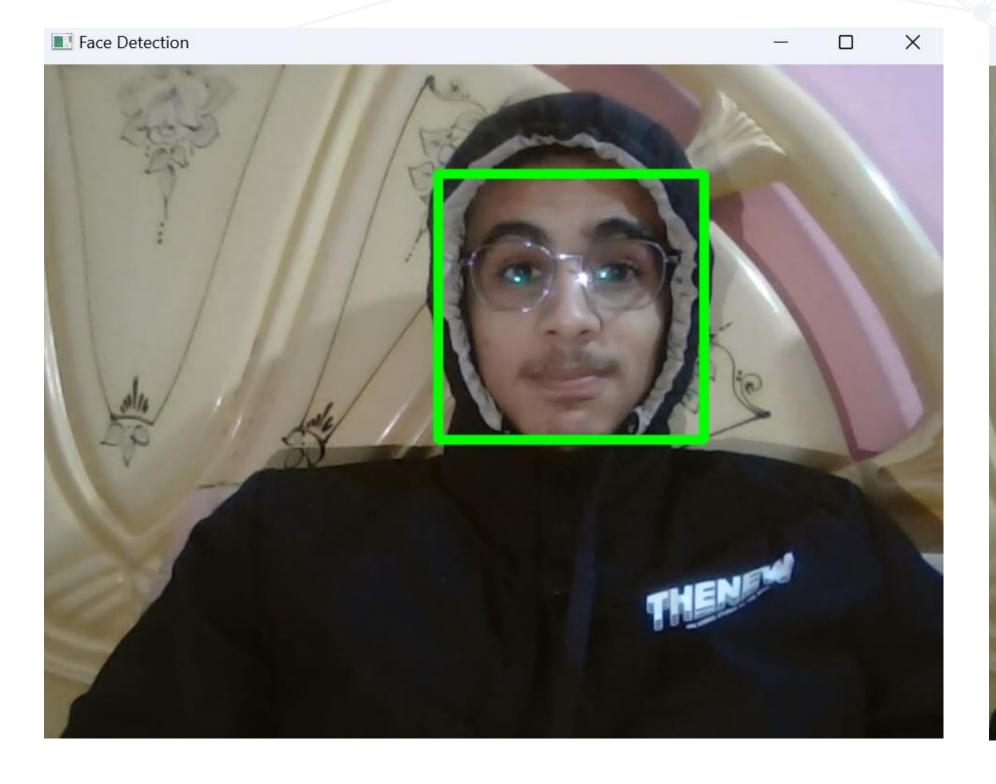
VOLUME CONTROL

VIRTUAL KEYBOARD

Results



Face detection



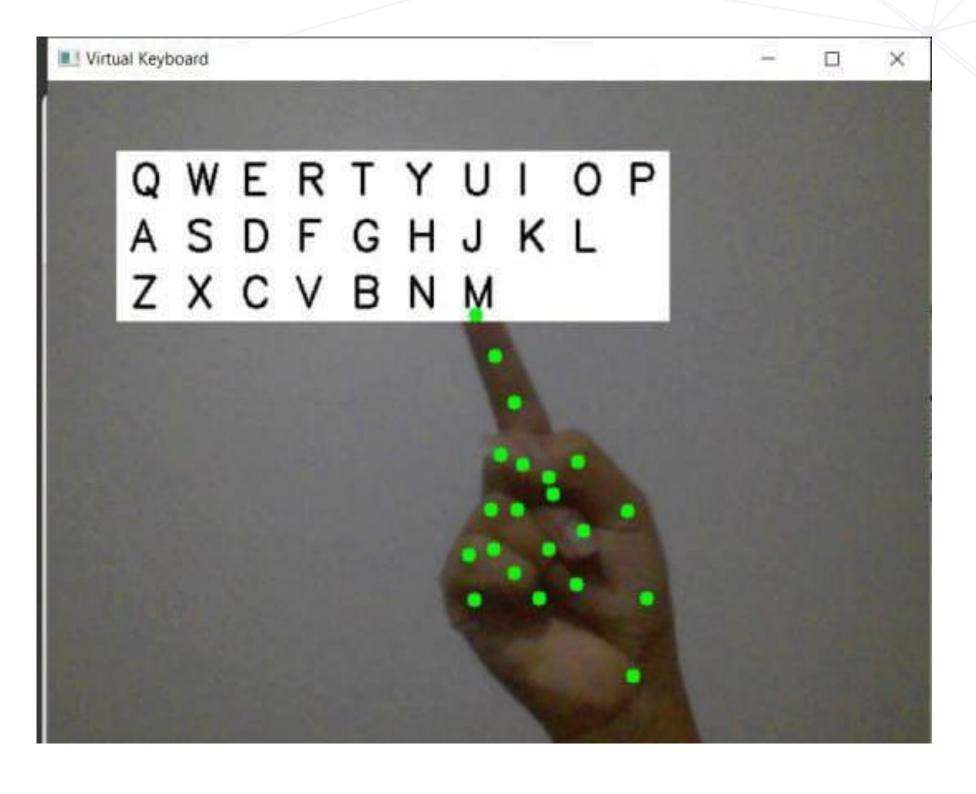
Color detection



Results



Virtual Keyboard



Volume Control

