

## Facial Comparison tool Face\_Checker.io Project

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### DESCRIPTION

Face\_checker.io allows users to upload two images and analyses their unique facial features to compare individuals, even if their faces have aged. Utilizing advanced facial recognition technology, it ensures accurate identification and comparison of faces

**Dev Vijay**

CW-129

Gmail: [devvijay7113@gmail.com](mailto:devvijay7113@gmail.com)

LinkedIn: <https://www.linkedin.com/in/dev-vj1/>

Project: [https://github.com/DevVj-1/Face\\_Checker.io](https://github.com/DevVj-1/Face_Checker.io)



YouTube Video Tutorial: <https://youtu.be/JoNuihOdBnw>

## Why do we need Face checker.io toolkit?

Face Checker Tool

FACE CHECKER.IO

First Image Second Image

Search With 1 Image Url

Search With 2 Image Url

OR

Upload Image 1

Upload Image 2

Compare Faces

IMAGE INFO: Age 7-9 Dimension: 1366x768 px - 1366x768 px Faces: 2 person face detected

IMAGE INFO: Age 18-20 Dimension: 1366x768 px - 1366x768 px Faces: 2 person face detected

Designed and Developed by Dev Vijay

1. This tool can be used to check missing people by comparing their last known face with evidence images, such as CCTV footage screenshots or images from any other source online



- \* Quality of the CCTV footage could impact the result!
- 2. This tool checks the person's unique facial features, such as the shape of the nose, eyes, and other distinctive characteristics, **compare persons face**. This capability allows the tool to find a person even if they have aged or their appearance has changed since the last available image of them.



- 3. This tool allows users to operate offline on their systems, ensuring the privacy of investigative data, especially when searching for missing persons. Users can conduct investigations without needing to share evidence such as CCTV footage images related to missing persons with third-party web services, thereby maintaining confidentiality.



- Image Link : [https://news.wttw.com/sites/default/files/styles/full/public/article/image-non-gallery/KingWalker\\_DiamondBynum\\_Submitted.jpg?itok=l0nvyKDI](https://news.wttw.com/sites/default/files/styles/full/public/article/image-non-gallery/KingWalker_DiamondBynum_Submitted.jpg?itok=l0nvyKDI) for URL search testing...

## **FUTURE PLANES & UPDATES**

I have limited time to submit this project, but I plan to add more features in future updates. For instance, I will soon include the ability to predict the age of a person in an image. Additionally, users will be able to upload CCTV footage and multiple images of the same person from different angles. This tool will then detect the presence of the person in the CCTV footage and record the time frames in which the person is detected. This feature could significantly help police officers by saving them the time required to manually watch and investigate CCTV footage. They can simply run this tool in the background.



- How to install Required dependency for Face Checker.io on windows
- Run setup.bat file or Install Manually
- Open your terminal
- Run python .\GUI.py
- Run python .\face\_comparison\_tool.py

# How to Install Face\_Checker.io on Windows 😊:

Git clone [https://github.com/DevVj-1/Face\\_Checker\\_io.git](https://github.com/DevVj-1/Face_Checker_io.git)

## Run setup.bat file or Install Manually

Face_Checker.io Project (9 items)			
Select a single file to get more information and share your			
Project-Video-tutorial-cw-129	21-06-2024 16:38	MP4 File	1,80,704 KB
requirements	22-06-2024 9:41	Text Document	1 KB
s	10-06-2024 22:10	ICO File	67 KB
Setup	22-06-2024 9:50	Windows Batch File	1 KB

./setup.bat

If it takes too much time to install boost\_1\_82\_0.zip with setup.bat. Then you can manually install boost\_1\_82\_0 (Requirement) file from website.

[https://www.boost.org/users/history/version\\_1\\_82\\_0.html](https://www.boost.org/users/history/version_1_82_0.html)

Extract boost\_1\_82\_0.zip file.

cd boost\_1\_82\_0

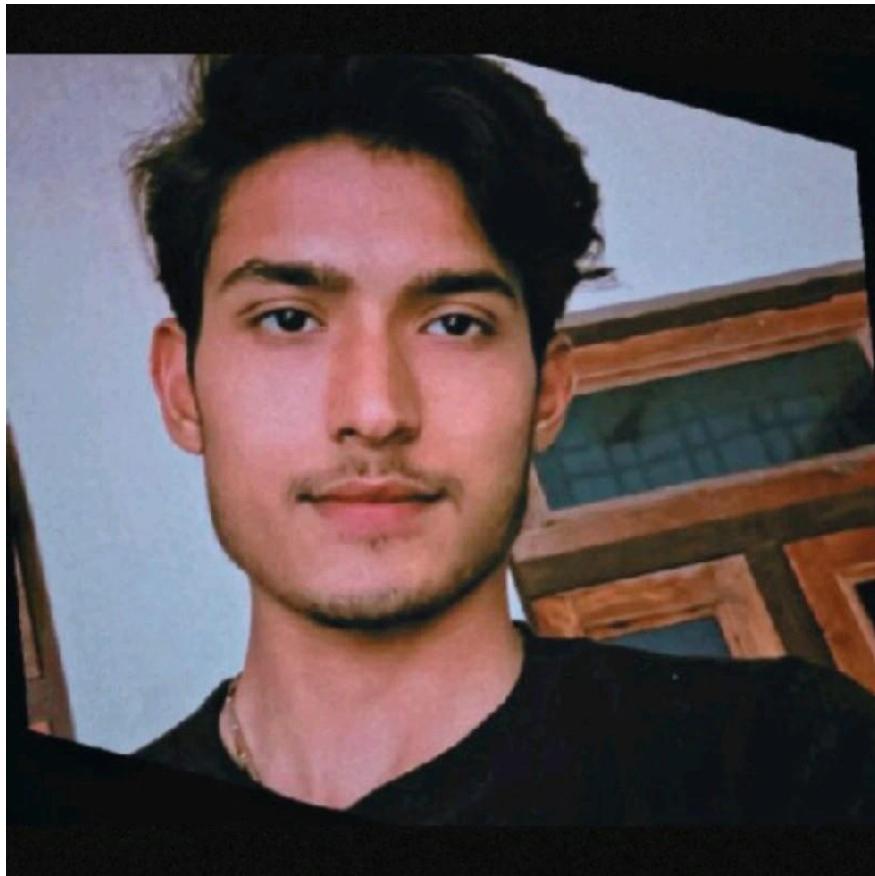
Run the Bootstrap.bat file

Manually install requirements.txt

pip install -r requirements.txt

→ Open your terminal and run this commands

python .\GUI.py  
python .\face\_comparison\_tool.py



## Dev Vijay CW-129

Subject: CW-129 "Dev Vijay" Face Comparison & Recognition

Date 23th june – [gpcssi2024@gmail.com](mailto:gpcssi2024@gmail.com)

Project Github link : [https://github.com/DevVj-1/Face\\_Checker\\_io](https://github.com/DevVj-1/Face_Checker_io)