DOCUMENTATION

Our software is a Digital Image Comparator, which when given one image, can find out the image closest to it from a database.

This software is made for Debian based Linux systems.

All the images of the database have to be manually copied into the ‘image\_database’ folder, which would be created after successful installation, present in the /home directory.

When you would start the software, it would prompt you to browse to the image you want. After you would have selected that, the software would search for the closest resembling image in the database and would display it.

This software with a few advancements has many practical applications like:

* **Counter Terrorism**: If we have a photograph of a terrorist whom we suspect to be in a particular city, we can get the photograph database from the CCTV cameras and the software can identify if the terrorist was in these photographs or not.
* **Prevent Scams**: In many cases it has been seen that a person has more than one ID proofs of the same type but under different names to extract illegal benefit from government schemes like subsidized food rates on Ration Cards, and hence cause a loss to the government. This software can prevent such scams at the time the person is registering for the Ration Card by finding out the closest face in the database and the person registering can decide whether the applicant is genuine or not.

Disclaimer: This software uses probability based algorithm to find the closest image. In case there is no logically closest image, it would still output an image which would in reality be a garbage value and hence it can be assumed that there is no logically closest image.

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