IMPLEMENTATION OF FINGERPRINT TECHNOLOGY IN YOUTUBE

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ABSTRACT:

The most popular means of proving an individual's identity is through their fingerprints. In this study, we used fingerprints from living people as proof of age. Inspired by the fact that while patterns in human fingerprints change from birth to middle life, widths do not,we can estimate age of living people. To estimate a person's age using fingerprints, Support vector machines (SVM) and the two techniques 2D- Discrete Wavelet Transform (DWT) and Principal Component Analysis (PCA) are combined.(This technique is already presented by Basavaraj Patil G.V, Mohamed Rafi PG Student, Department of CSE, UBDTCE, Davangere, India, Professor, Department of CSE, UBDTCE, Davangere, India). We can prevent people from seeing age-restricted videos by employing this age estimation algorithm with fingerprints.

KEYWORDS:

EPIDERMAL RIDGE,DISCRETE WAVELET TRANSFORM, PRINCIPAL COMPONENT ANALYSIS, SUPPORT VECTOR MACHINES,BIOMETRIC TECHNOLOGY, FINGERPRINT TECHNOLOGY.

I INTRODUCTION:

Biometric technologies, in general, refer to the application of technology to a person's identification based on a biological trait. Fingerprint identification is one of the first and most innovative biometric technologies that has been properly grouped under digital forensics. The epidermis of a finger is represented by a fingerprint, which is a pattern of interspersed ridges and valleys.Over time, the ridges on human fingertip tips changed to enable people to grasp and grip objects. The formation of fingerprint ridges is influenced by both hereditary and environmental influences, just like everything else in the human body. Because of this, even identical twin's fingerprints differ from one another.By using this concept ,we can restrict individuals from seeing age-restricted videos.

II ESTIMATION OF AGE:

1. The fingerprint is preprocessed and resized in accordance with the specifications.

2. The fingerprint is wavelet decomposed to produce a 19 feature vector.

3. PCA Eigen vector feature extraction is also applied to the preprocessed fingerprint.

4. The features vectors are now added together to get the final vector.

5. The age estimation classification is performed on this fingerprint feature vector using the SVM classifier.

All of the fingerprints that are used have been optically scanned. For the purpose of estimating age, the database is divided into various age ranges, such as 15-20, 21-25, 26-30, 31-35, 36-40, 41-45, 46-50, and so forth.

[These steps are already proposed by Basavaraj Patil G.V, Mohamed Rafi PG Student, Department of CSE, UBDTCE, Davangere, India, Professor, Department of CSE, UBDTCE, Davangere, India]

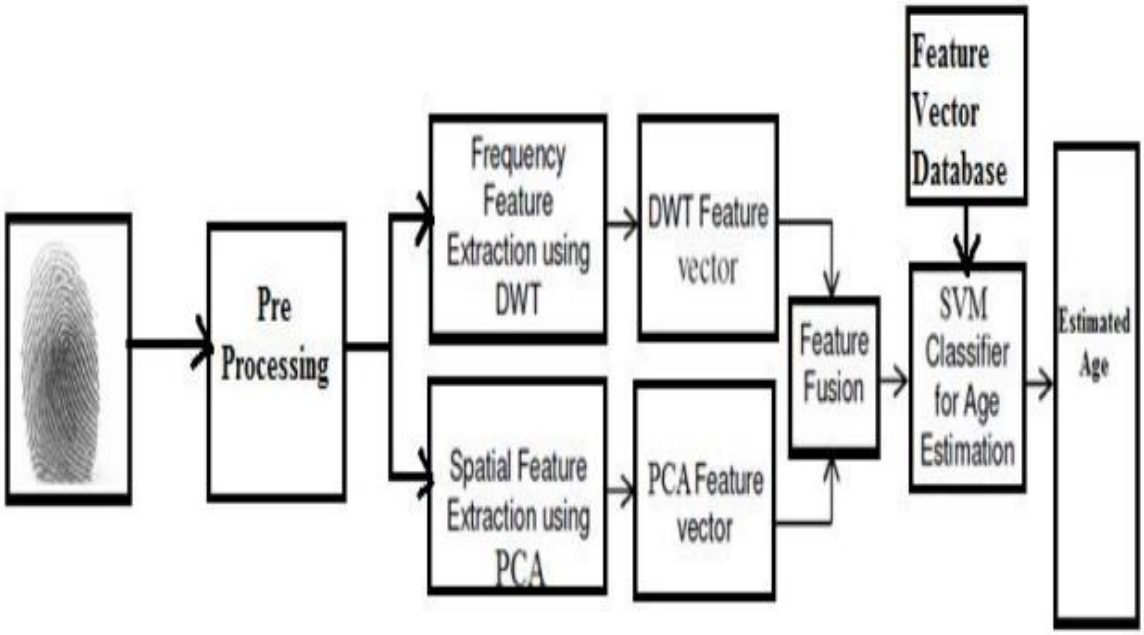

Fig 1.1 Estimation of age

The above diagram represents how age is estimated using fingerprint.

After entering our fingerprint, it will detect our age as shown as below **.**

Fig 1.2 Processing age

III IMPLEMENTATION:

YouTube age restriction policies are created to prevent children and other users who are unable to make responsible decisions from accessing NSFW YouTube video content. As a result, Google based its restrictions on the users' Google + profile entries for their ages.

ACTIONS TO TAKE WHEN UPGRADING OUR PROFILE:

*Use your Google account's email address and password to log in.

*The "Profile" tab may be found on the website's left side after selecting the "Home" tab at the top of the page.

*You may view the details of your profile by selecting the "About" page.

* Click the pencil icon next to "Birthday" under the "Gender, birthday, and more" options.

*To change or add your date of birth to your Google + profile, enter it there and click "Save".

Even when content complies with YouTube regulations, it may not be suitable for users under the age of 18. The video's age may occasionally be restricted by YouTube. The guidelines are apply to videos, video descriptions, and custom thumbnails. To stop young children from accessing inappropriate content, communicating with strangers, or engaging in cyberbullying, the age limit was implemented.

However, a lot of people adjust their date of birth in their profile to reflect that they are adults so that only they can see age-restricted films by following the instructions for updating the profile above.

To avoid this type of malpractices,age estimation method using fingerprint technology is very useful.

To overcome this ,we can implement a application on youtube to estimate our age by detecting our fingerprint.Whenever we enter into youtube,it ask for our fingerprint.

After entering our fingerprint,it automatically detect our age and shows videos related to our age. By using this method,no one can fake their age to access age-restricted videos.

Fig 1.3 Display while opening youtube

when youtube has lock,

one who put lock on their youtube, they only can unlock it after that it ask for entering the fingerprint.On that, anyone who want to use youtube can enter their fingerprint and scroll the youtube.

when youtube has no lock,

It ask only for the fingerprint,on that anyone can enter their fringerprint.

//This application does not saves fingerprint(detect our age only). Everytime we open the youtube,it ask for fingerprint and then only we can entering into home page of youtube.

IV ADVANTAGES:

* It is secured because it does not save our fingerprint and also does not access our information.

* Any finger can be entered.

* It detect our age correctly. we can't cheat anymore by changing our date of birth to access age restricted videos.

*Not only in youtube,this concept can be implemented in any app which want to restrict people from seeing age-restricted videos.

*Avoid cyberbullying.

* According to a Cisco research, 81 percent of smartphones have fingerprint sensor. So it can be implemented and get success.

V DISADVANTAGES:

* One who does not have no fingers ,they can't enter into youtube.

*We can't implement this method in the mobilephone without the fingerprint sensor.

VI CONCLUSION:

In this presentation, In order to prevent viewers from viewing age-restricted content on YouTube, we have implemented a fingerprint technology for calculating a user's age from their fingerprint.

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