

**FACE DETECTION AND RECOGNITION
USING HCC & LBHP ALGORITHMS**

A PROJECT REPORT

**Submitted For the Partial Fulfilment of the Requirement for the Degree of
Master of Computer Applications**

By

VIGNESHWARAN K R D

C23105PCA6040

Under the Guidance of

Dr. M. GANESH RAJA., MCA., M.Phil., Ph.D.,

Assistant Professor,

Department of Computer Science,

Dhanraj Baid Jain College

Thoraipakkam, Chennai - 97



INSTITUTE OF DISTANCE EDUCATION

UNIVERSITY OF MADRAS

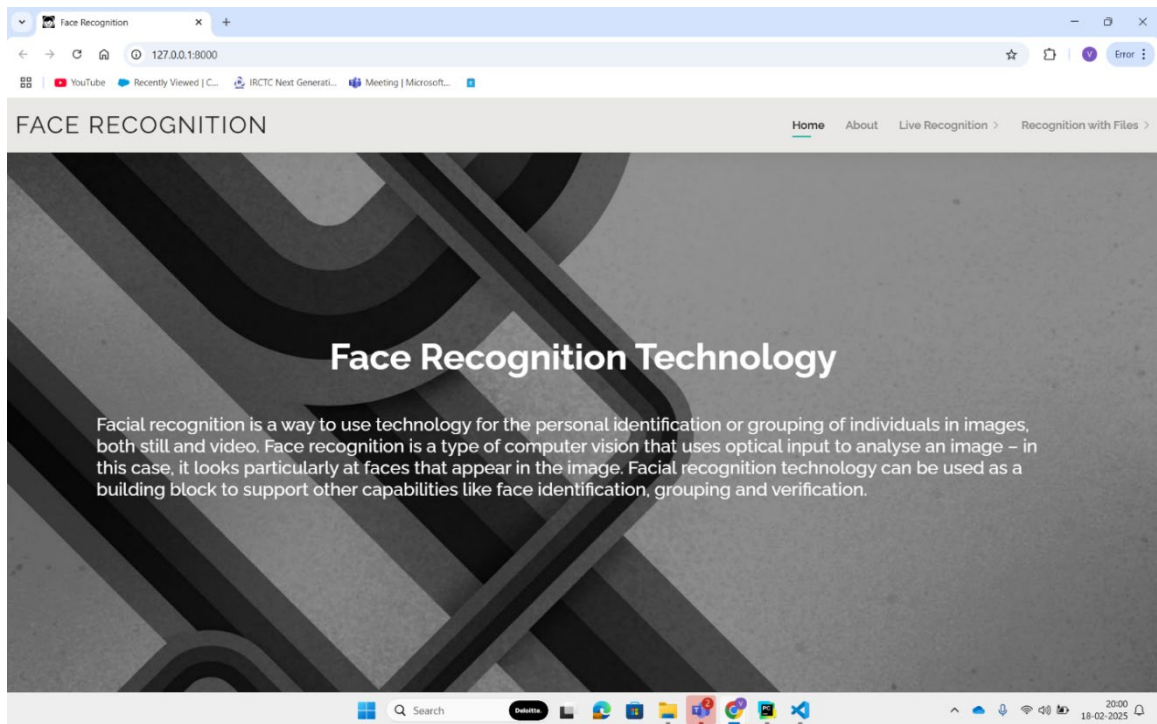
CHENNAI - 600 005

DECEMBER 2024

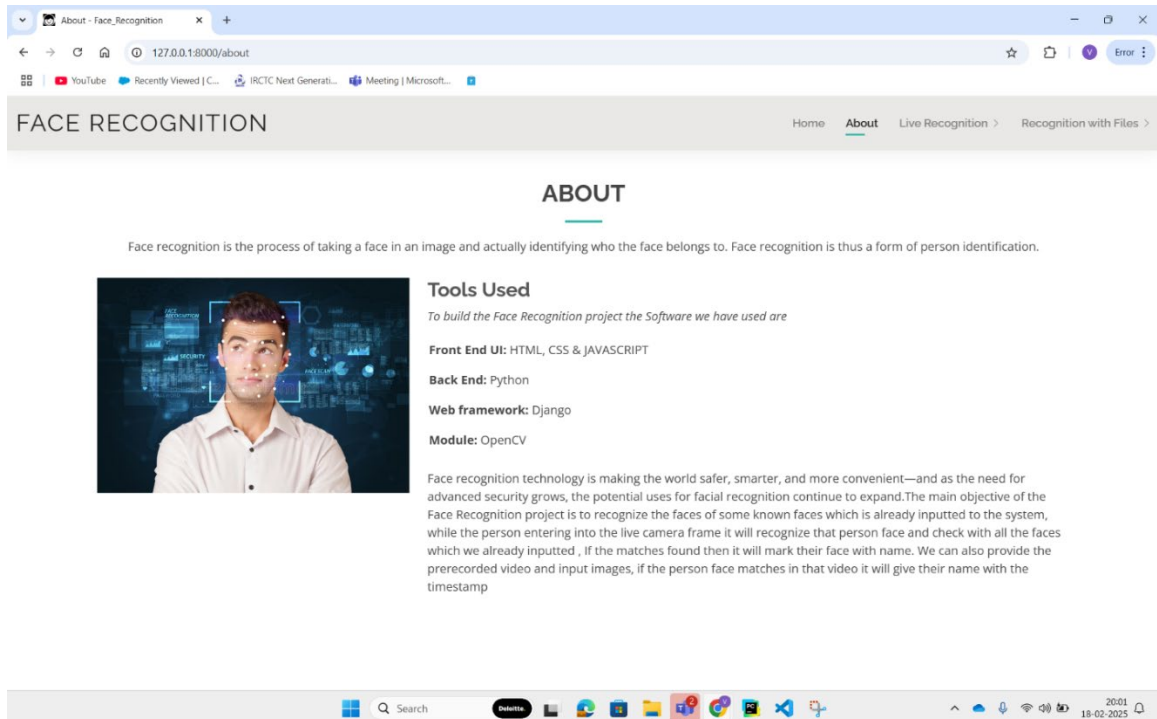
8. FORMS AND REPORT

SCREENSHOTS

HOME



ABOUT




FACE RECOGNITION

Home About Live Recognition > Recognition with Files >

ABOUT

Face recognition is the process of taking a face in an image and actually identifying who the face belongs to. Face recognition is thus a form of person identification.



Tools Used

To build the Face Recognition project the Software we have used are

Front End UI: HTML, CSS & JAVASCRIPT

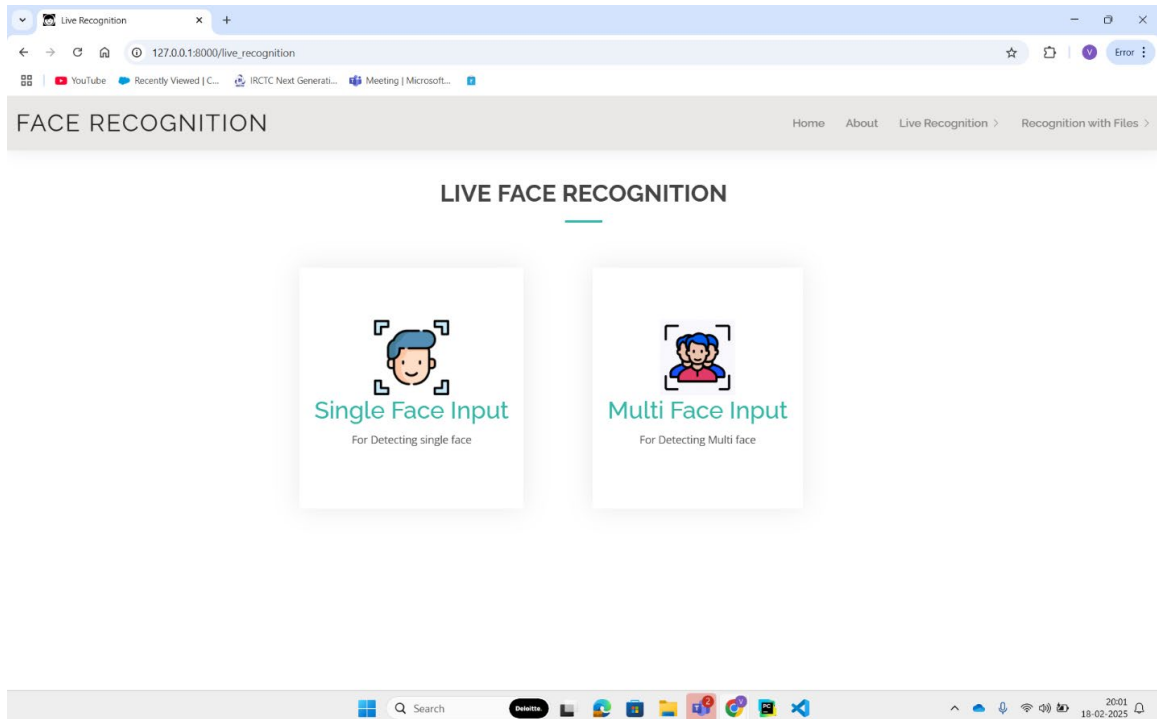
Back End: Python

Web framework: Django

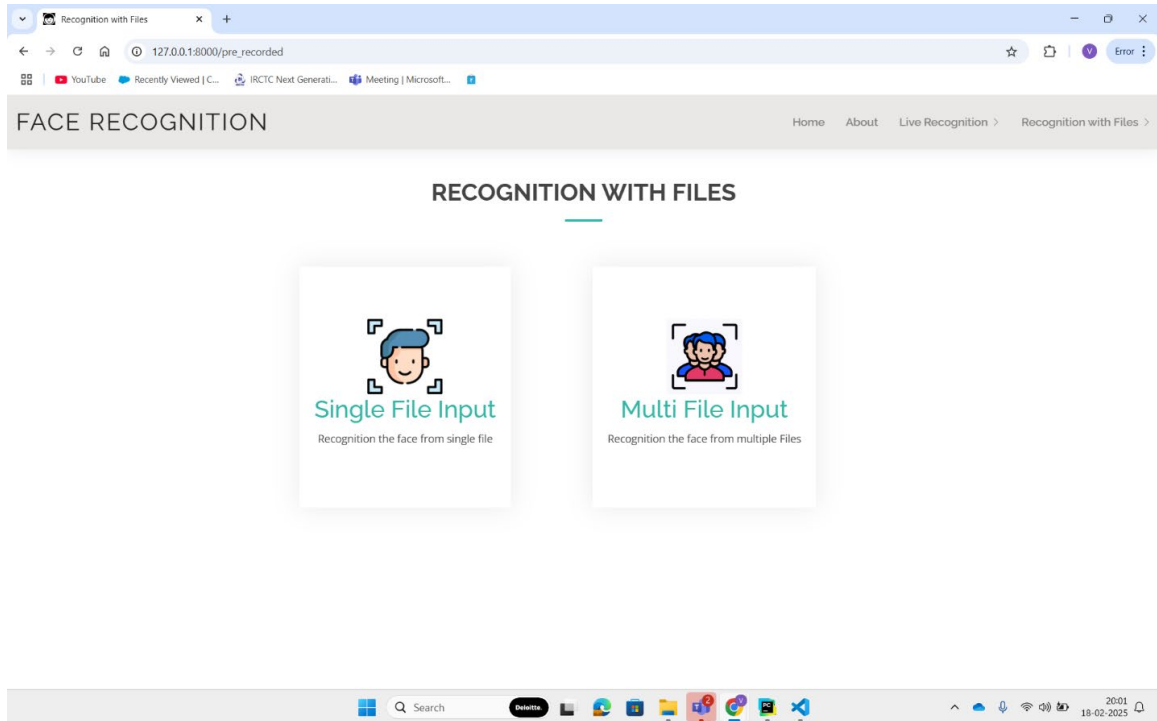
Module: OpenCV

Face recognition technology is making the world safer, smarter, and more convenient—and as the need for advanced security grows, the potential uses for facial recognition continue to expand. The main objective of the Face Recognition project is to recognize the faces of some known faces which are already inputted to the system, while the person entering into the live camera frame it will recognize that person face and check with all the faces which we already inputted. If the matches are found then it will mark their face with a name. We can also provide the prerecorded video and input images; if the person face matches in that video it will give their name with the timestamp.

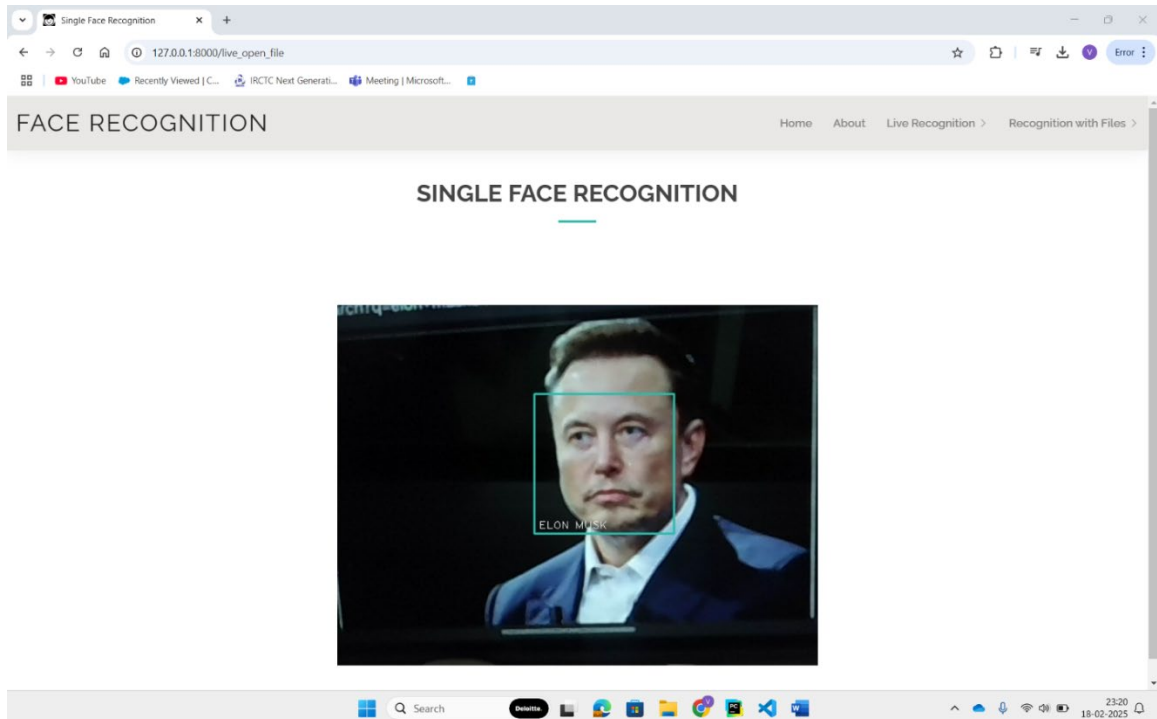
LIVE FACE RECOGNITION



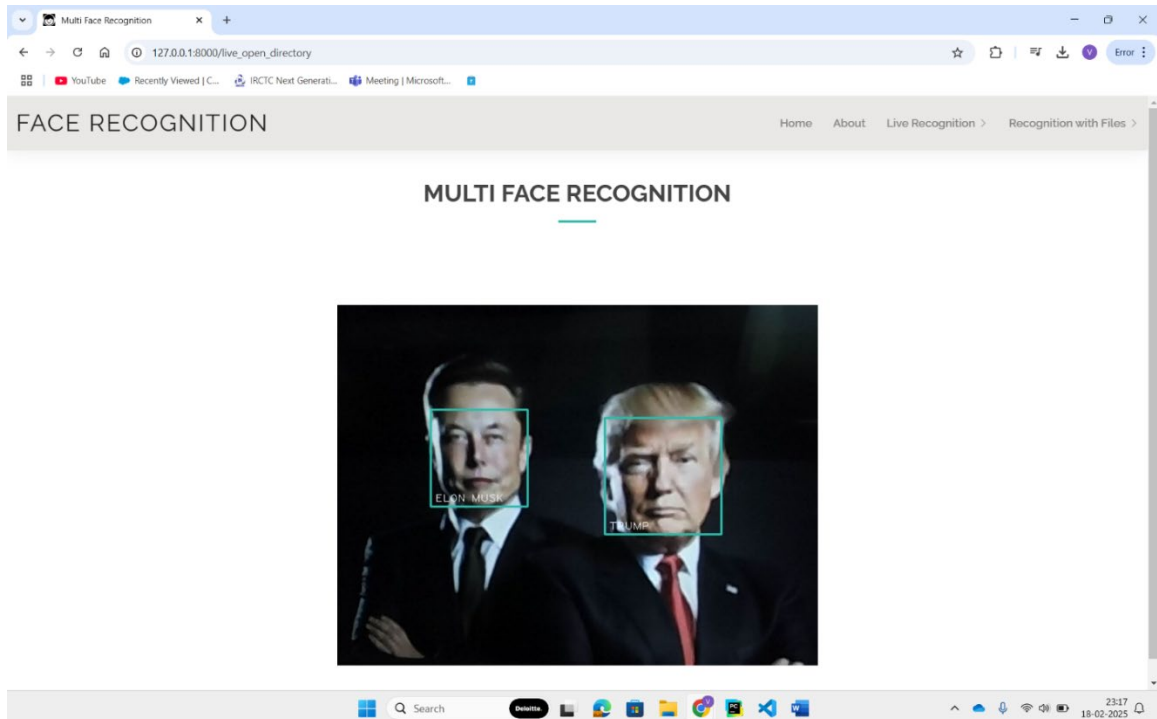
RECOGNITION WITH FILES



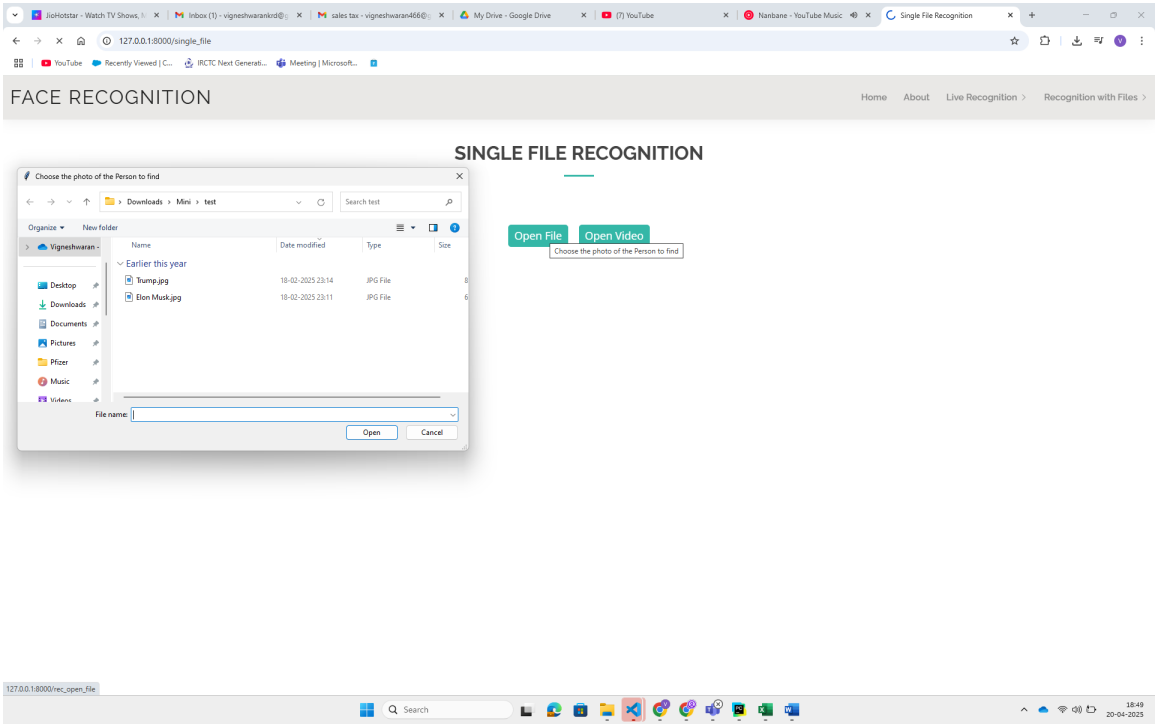
SINGLE FACE RECOGNITION



MULTI FACE RECOGNITION



SINGLE FILE RECOGNITION



SINGLE FILE RECOGNITION OUTPUT

The screenshot shows a web browser window with the address bar displaying '127.0.0.1:8000/rec_feed'. The page title is 'Single File Recognition'. The main heading is 'FACE RECOGNITION'. Below this, there is a sub-heading 'SINGLE FILE RECOGNITION' and a green 'Go' button. The output is a list of 20 entries, each showing 'Name: 'VIGNESH'' and 'Timestamp is: '0.XX''.

FACE RECOGNITION

Home About Live Recognition > Recognition with Files >

SINGLE FILE RECOGNITION

Go

Name: 'VIGNESH' Timestamp is: '0.0'
Name: 'VIGNESH' Timestamp is: '0.03'
Name: 'VIGNESH' Timestamp is: '0.06'
Name: 'VIGNESH' Timestamp is: '0.1'
Name: 'VIGNESH' Timestamp is: '0.13'
Name: 'VIGNESH' Timestamp is: '0.16'
Name: 'VIGNESH' Timestamp is: '0.19'
Name: 'VIGNESH' Timestamp is: '0.22'
Name: 'VIGNESH' Timestamp is: '0.27'
Name: 'VIGNESH' Timestamp is: '0.3'
Name: 'VIGNESH' Timestamp is: '0.34'
Name: 'VIGNESH' Timestamp is: '0.37'
Name: 'VIGNESH' Timestamp is: '0.4'
Name: 'VIGNESH' Timestamp is: '0.43'
Name: 'VIGNESH' Timestamp is: '0.46'
Name: 'VIGNESH' Timestamp is: '0.5'
Name: 'VIGNESH' Timestamp is: '0.53'
Name: 'VIGNESH' Timestamp is: '0.56'
Name: 'VIGNESH' Timestamp is: '0.59'
Name: 'VIGNESH' Timestamp is: '0.64'
Name: 'VIGNESH' Timestamp is: '0.67'
Name: 'VIGNESH' Timestamp is: '0.7'
Name: 'VIGNESH' Timestamp is: '0.74'
Name: 'VIGNESH' Timestamp is: '0.77'