I developed a biometric authentication system as a project. In this system, I extracted frames from a video and selected key frames for further processing. The selected frames were preprocessed, and face detection was performed to isolate facial images. Additionally, gait images were obtained from the video frames.

Next, I extracted features from both the detected face images and the gait images. These features were then combined, and deep feature extraction was performed to enhance accuracy. The final extracted features were stored in a database for authentication purposes.

To authenticate a person, the system compares the newly extracted features with the stored features in the database. If the features match, the person is authenticated; otherwise, authentication fails.

Stage \_1:  
  
Selecting Video  
  
Stage \_2:  
  
Extracting the frames from the video..  
  
Example Frames:  
  
  
  
  
  
  
Preprocessing ….  
  
  
  
  
Detecting Faces from the images ..  
  
  
  
  
  
  
Extracting Face Features..  
  
  
  
Finding The action –Gain..  
  
  
  
  
  
Extracting Gait Features…  
  
  
Combine both gait and Face features  
  
  
And After we doing deep feature extraction for enhance the accuracy

Saving the features into the database  
  
  
Finally doing authentication