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.