

## Biometric Authentication

## Enrollment



## Different pattern types to Identify Users

**physical**

- eyes
  - Facial recognition
  - Finger prints

## Behavioural

- pattern
  - Voice
  - Signature

## Efficacy Rates + Considerations

- False recognition rate / type 1 / False Non Match Rate (FRR)

- Measured in %

- False Acceptance Rate (Accepting unauthorised users) / Type 2 (FAR)

- The most important / critical one

- Crossover Error Rate (CER)

- Measures FRR + FAR in %
  - The lower the CER the better the technology is

- Throughput (speed) - / Important for high traffic access point /

- Time taken to create a template and authorize the user.

- Failure to Enroll rate (FER)

- Template can not be created + matched to user

- Cost

- Privacy concerns

- Accessibility concerns (no hands)