Security Implementation using Biometric

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Abstract—The project aims to develop a biometric security system, which can protect the users device(s) from unauthorized or unauthenticated access. The idea is inspired from Microsoft Windows Hello and Google Now, which allows us to speak our mind and the machine does it, through the profound advancement in machine learning and artificial intelligence. This project aims to implement an application which can recognize the face and the voice of the user, and accordingly allow or deny access to the system.

I. Introduction

Biometric Security is gaining more and more attention recently. This project attempts to implement an application which can take the voice input from a microphone, face input from a camera, and verify the authenticity of the user accessing the system.

II. MOTIVATION

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III. RELATED WORKS

- Google Now https://www.google.com/search/about/ learn-more/now/
- 2) Microsoft Windows Hello https://support.microsoft. com/en-in/help/17215/windows-10-what-is-hello

IV. PROBLEM STATEMENT

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V. HIGH LEVEL DESIGN

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VI. WORK PLAN

- Design a system which takes the user voice through the microphone and returns True or False, accordingly.
- 2)

REFERENCES

- Microsoft Windows Hello, https://support.microsoft.com/en-in/help/ 17215/windows-10-what-is-hello
- [2] UCSD Computer Vision, http://vision.ucsd.edu/content/ yale-face-database
- [3] Google Now, https://www.google.com/search/about/learn-more/now/
- [4] The CMU Audio Databases, http://www.speech.cs.cmu.edu/databases/