

CS4089 Project
Report

Security Implementation using Biometric

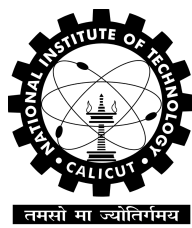
*Submitted in partial fulfillment of
the requirements for the award of the degree of*

**Bachelor of Technology
in
Computer Science and Engineering**

Submitted by

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Abstract

The project aims to develop a biometric security system, which can protect the user's 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. I plan to implement an Android application which can recognize the face and the voice of the user, and accordingly allow or deny access to the system.

Datasets Required: Yes

1. <http://vision.ucsd.edu/content/yale-face-database>
2. <http://www.speech.cs.cmu.edu/databases/>

Related Works:

1. P. Jonathon Phillips, A. Martin, C.I. Wilson, M. Przybocki, An Introduction to Evaluating Biometric Systems <http://www.face-rec.org/databases/151436.pdf>
2. Microsoft Windows Hello <https://support.microsoft.com/en-in/help/17215/windows-10-what-is-hello>
3. Google Now <https://www.google.com/search/about/learn-more/now/>

Tools Needed:

1. CMU Sphinx <http://cmusphinx.sourceforge.net/>
2. Open C V <http://opencv.org/>
3. Android SDK and Studio <https://developer.android.com/studio/index.html>