**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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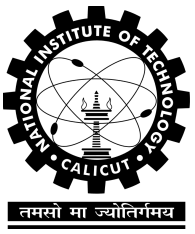
Under the guidance of
**Dr. Vinod Pathari**

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Monsoon Semester 2016

# Department of Computer Science and Engineering

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## *Certificate*

This is to certify that this is a bonafide record of the project presented by the students whose names are given below during Monsoon Semester 2016 in partial fulfilment of the requirements of the degree of Bachelor of Technology in Computer Science and Engineering.

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Mr. Vinod Pathari
(Project Guide)

# Acknowledgments

¡Acknowledgements here¿

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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.l. 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`