

# **MACHINE LEARNING BASED AUTHENTICATION**

## **A PROJECT REPORT**

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*in partial fulfilment for the award of the degree*

*of*

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## DECLARATION

We hereby declare that the work entitled “**MACHINE LEARNING BASED AUTHENTICATON**” is submitted in partial fulfilment of the requirement for the award of the degree in B.TECH, in University College of Engineering, BIT Campus, Anna University, Tiruchirappalli. It is the record of our own work carried out during the academic year 2018 – 2019 under the supervision and guidance of Dr.I.SHAHANAZ BEGUM, Assistant Professor, Department of Computer Science, University College of Engineering, BIT Campus, Anna University, Tiruchirappalli. The extent and source of information are derived from the existing literature and have been indicating through the dissertation at the appropriate places.

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## **ABSTRACT**

User authentication is one of the most important and challenging aspects of controlling unauthorized access to a system. The user authentication is processed by both physiological and behavioural methods, under the Biometrics based authentication. Iris recognition is one of the authentication methods performed through the identification of features such as length, radius of the iris. Using machine learning techniques (ANN) the iris recognition is performed. The goal of this system is to get high accurate recognition of iris by using the machine learning algorithms.

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## **ABBREVIATIONS**

ANN – ARTIFICIAL NEURAL NETWORK

SVM – SUPPORT VECTOR MACHINE