**DETERMINATION OF GENUINENESS OF A MEDICAL PROFESSIONAL**

**Blank Sheets:**

In addition to the white sheets (binding requirement) two white sheets shall be put at the beginning and the end of the thesis.

**DETERMINATION OF GENUINENESS OF A MEDICAL PROFESSIONAL**

Submitted in partial fulfillment of the requirements

of the degree of

**B. E. Computer Engineering**

By

**Aayush Shah 60004140091**

**Pranay Shah 60004140101**

**Dipam Vasani 60004140116**

Guide(s):

**Kriti Srivastava**

Assistant Professor

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University of Mumbai

2017-2018

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**CERTIFICATE**

This is to certify that the project entitled **“Determination of genuineness of a medical professional”** is a bonafide work of **“Aayush Shah” (60004140091), “Pranay Shah” (60004140101), “Dipam Vasani” (60004140116)** submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of B.E. in Computer Engineering

**Prof. Kriti Srivastava**

**Internal Guide**

**Dr. N. M. Shekokar Dr. Hari Vasudevan**

**Head of Department Principal**

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**Project Report Approval for B.E.**

This project report entitled ***Determination of genuineness of a medical professional*** by ***Aayush Shah, Pranay Shah, Dipam Vasani*** is approved for the degree of ***B.E. in Computer Engineering.***

Examiners

1.---------------------------------------------

2.---------------------------------------------

Date:

Place:

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Declaration

I/We declare that this written submission represents my/our ideas in my/our own words and where others' ideas or words have been included, I/We have adequately cited and referenced the original sources. I/We also declare that I/We have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my/our submission. I/We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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Date:

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**Abstract**

In the age, where any data is easily available, it is of utmost importance that the data accessed by a person, isn’t used for malicious purposes, or more importantly the data isn’t in the wrong hands. This is even more important when the data is about an individual’s health and medical history. Often, we hear about cases wherein a medical professional misused a person’s past medical history. So, we thought of determining a medical professional’s genuineness, and then forward these details to a system administrator, who may then decide to deny access to a malicious doctor. These results would solely be based upon the genuineness of a medical professional’s intentions. In this work, we discuss the design and implementation of the proposed project, using Fuzzy Logic and Neural Networks. A rule base would be developed for this purpose. Factors like the location from which a medical professional accesses data, relevance of the data being accessed to the ailment/treatment, etc. would serve as inputs to the Neural Network, and using Error Back Propagation Technique, the Network would be trained for a variety of inputs, finally, displaying the genuineness of a medical professional as a numerical value between zero and one.

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**List of Abbreviations**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Abbreviation** | **Expanded form** |
| i | DSS | Decision Support System |
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