# PROJECT REPORT

***on***

***Medical Test Recommender***

***(CSE VI Semester Mini project PCS-604) 2021-2022***

***Submitted to: Submitted by:***

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*Mr. Sushant Chamoli Session: 2021-2022 (Resource Person)*

**DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY**

**GRAPHIC ERA HILL UNVERSITY, DEHRADUN**

# CERTIFICATE

Certified that Mr. Chinmay Tiwari (Roll No.- 1918306) has developed mini project on “Credit Card Fraud Detection” for the CS VI Semester Mini Project Lab (PCS-604) in Graphic Era Hill University, Dehradun. The project carried out by Students is their own work as best of my knowledge.

Date:30/06/2022

(Mr. Samir Rana) **Class Co-Ordinator CSE-D-VI-Sem**

(CSE Department) GEHU Dehradun

(Mr. Sushant Chamoli) **Project Guide** Resource Person (CSE Department) GEHU Dehradun

**ACKNOWLEDGMENT**

We would like to express our gratitude to The Almighty Shiva Baba, the most Beneficent and the most Merciful, for completion of project.

We wish to thank our parents for their continuing support and encouragement. We also wish to thank them for providing us with the opportunity to reach this far in our studies.

We would like to thank particularly our project Co-Ordinator Mr. Samir Rana and our Project Guide Mr. Sushant Chamoli for his patience, support, and encouragement throughout the completion of this project and having faith in us.

At last but not the least we greatly indebted to all other persons who directly or indirectly helped us during this work.

## Mr. Chinmay Tiwari Roll No.- 1918306 CSE-D-VI-Sem

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**ABSTRACT:**

The goal of this project is to build a Medical Test Recommender System with the help of questionnaire.

Medical test recommendation system based on the analysis of patients’ symptoms and anamneses. The exact test selection for a specific patient can be time consuming and error-prone due to the huge amount of information to be considered like: the number of tests, patients, long working hours, exceptional cases, etc.

The number of medical tests that are applicable in the hospitals is too high, therefore only 20 most frequently required ones are selected. The promising results of the study indicated that the symptoms given as plain text can be efficiently utilized by the experts for medical test selection.

**MOTIVATION**:

In this project, I have designed, implemented, and analyzed a Medical Test Recommender System using questionnaire on what symptoms a patient is having. By Building this project I got to learn about various diseases and what symptoms can lead to serious risk issues if ignored.

## SOFTWARE REQUIREMENTS:

* Jupyter Notebook
* Python

## HARDWARE REQUIREMENTS:

* 2 GHz Intel or high processor
* Minimum of 180 GB HDD
* At least should have 2 GB RAM

## LANGUAGE USED:

* Python

## FUTURE ENHANCEMENTS:

## Recommender systems are employed in many fields to help users to find important products and services for them. Similar approaches can be headed for providing diagnosis, thus supporting physicians in their work.

## I presented a content-based recommender system within the medical domain, by providing an overview of recent information retrieval and semantic enrichment tools we employed. Our work addressed the challenge to find out which types of information can be directly processed by machines on large collections of symptoms to return the reliable results.

## REFERENCES:

* Wikipedia- To get most common disease and their symptoms.

## CONCLUSION:

This work contributes to simplify administrative functions and boost the quality of management of patients improving the quality of healthcare with models that are both transparent and safe. Our methodology can be extended to different clinical scenarios where recommender systems can be applied. The acceptance and further development of the app is one of the next important steps and still requires further development depending on specific requirements of the health management, the physicians or health professionals.