

Disease Prediction AI

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Abstract- “Disease Prediction” system based on predictive modelling, predicts the disease of the user on the basis of the symptoms that user provides as an input to the system. The system analyzes the symptoms provided by the user as input and gives the probability of the disease as an output.

Keywords- Decision tree, Classification, health, Web mining, Information extraction, Data filtering Design with Flask, python, Design with HTML and CSS, Microsoft SQL Server, Login System, Fast and Fluid.

I. INTRODUCTION

At present, when one suffers from particular disease, then the person has to visit to doctor which is time consuming and costly too. Also if the user is out of reach of doctor and hospitals it may be difficult for the user as the disease can not be identified. So, if the above process can be completed using a automated program which can save time as well as money, it could be easier to the patient which can make the process easier. There are other Heart related Disease Prediction System using data mining techniques that analyzes the risk level of the patient.

Disease Predictor is a web based application that predicts the disease of the user with respect to the symptoms given by the user. Disease Prediction system has data sets collected from different health related sites. With the help of Disease Predictor the user will be able to know the probability of the disease with the given symptoms.

As the use of internet is growing every day, people are always curious to know different new things. People always try to refer to the internet if any problem arises. People have access to internet than hospitals and doctors. People do not have immediate option when they suffer with particular disease. So, this system can be helpful to the people as they have access to internet 24 hours.

Basically , We are developing a system Disease Prediction which will help to the people of that area where doctors are not easily available and people can not afford to visit a doctor. If one person is suffering from some particular

disease and he/she can not visit the doctor. Also, the process of visiting doctor is time and money consuming.

If user is using the system Disease Prediction, it would be easier for the user to know which type of disease they he/she may have. Also, it is easier process and it saves time as well as money.

II. LITERATURE REVIEW

- A. Python is a web development platform, which provides a programming model, a comprehensive software infrastructure and various services required to build up robust web applications for PC, as well as mobile devices. Python is used to produce interactive, data-driven web applications over the internet. It consists of a large number of controls and libraries such as pandas, numpy, scipy for assembling, configuring, and manipulating code to create HTML pages.
- B. SQL Server is a relational database management system (RDBMS) developed and marketed by Microsoft. As a database server, the primary function of the SQL Server is to store and retrieve data used by other applications.
- C. PyCharm or Anaconda is used to write native code and managed code supported by Microsoft Windows, Windows Mobile, Windows CE, .NET Framework, MAC OS, Linux

Python libraries provide inbuilt functions to develop a code. The PyCharm integrated debugger supports both source and machine-level debugging. PyCharm includes other built-in tools, like a form designer, which is useful when building GUI applications; a Web designer that creates dynamic Web pages; a class designer that is used to create custom libraries, and a schema designer for database support.

III. STUDY FINDINGS

It might have happened so many times that you or someone yours need doctors help immediately, but they are not available due to some reason.

The disease prediction application is an end user support and online consultation project. here, we propose a

web application that allows users to get instant guidance on their disease through an intelligent system online. It then processes user specific details to check for various illness that could be associated with it. here we use some intelligent data mining techniques to guess the most accurate illness that could be associated with patients details. Based on result, the can contact doctor accordingly for further treatment

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IV. FUTURE ENHANCEMENT

As a future work, the technique can be improved further by experiments with more data set and using hybrid algorithm to improve the classification accuracy and to build a model that can predict specific disease.

V. CONCLUSION

This project aims to predict the disease on the basis of the symptoms. The project is designed in such a way that the system takes symptoms from the user as input and produces output i.e. predict disease.

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