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Multiple Disease Prediction System using ML

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Abstract

Machine learning plays a huge role in the medical fields. The medical industry produces a huge amount of data that can be processed in a lot of ways. So, with the help of this data and machine learning we will create a prediction system which can detect more than one disease at a time. The user has to enter various parameters of the disease and the system would display the output whether he or she has the disease or not.

Introduction

This is a general architecture for predicting the disease in the health care industry. This will be a common disease predicting system in which we can predict the disease which we select . We are proposing a system which will predict diseases using streamlit. In this system we are going to analyze diabetes, heart and parkinsons disease analysis. Later many more disease can be included. The importance of system analysis is that while analyzing the diseases all the parameters which cause the disease will be included so that it is possible to detect the disease more efficiently and accurately.

Problem System

Many of the existing learning models for healthcare concentrating on one disease per analysis. There is no common system where one analysis can perform more than one disease prediction. Some of the models have lower accuracy which can seriously affect patients health. Some of the existing systems consider very few parameters which can yield false results.

Proposed system

In multiple disease prediction it is possible to predict more than one disease at a time. So the user doesn’t need to traverse different sited in order to predict the disease. To implement multiple disease analysis we are going to use machine learning algorithm and streamlit.

Functional requirement

- The system allows the patient to predict the disease.
- The user adds the input for the particular disease and based on the trained model of the user input and the output will be displayed.

Non-functional requirement

- The website will provide range of the values during the prediction of the disease.
- The website should be reliable and consistent.

Future Scope

- In the future we can add more diseases in the existing API’s.
- We can try to improve the accuracy of prediction in order to decrease the mortality rate.
- Try to make the system user-friendly and provide a chatbot for normal queries.

Conclusion

The main objective of this project was to create a system that would predict more than one disease and do so with high accuracy. Diseases if predicted early can increase your life expectancy as well as save you from financial troubles.

Thank you