Project Design Phase-II

Proposed Solution

Date	23 October 2023
Team ID	Team - 592529
Project Name	Project - Disease Prediction Using Machine Learning
Maximum Marks	4 Marks

Problem Statement

In today's fast-paced world, individuals often delay seeking medical attention due to time constraints and the high cost of doctor visits. Generic internet searches for symptoms frequently lead to inaccurate or alarming results. This gap in accessible healthcare information prompts the need for a reliable and efficient tool that empowers both patients and doctors with accurate preliminary diagnoses.

Idea/Solution Description

We have developed a groundbreaking model capable of predicting up to 42 diseases based on input symptoms, offering a user-friendly platform for preliminary health assessments. This tool is accessible without the need for personal information, addressing privacy concerns. Patients can use it for preventive self-care, while doctors can integrate it into their online consultations to enhance patient engagement and streamline diagnoses.

Novelty/Uniqueness

What sets our model apart is its ability to provide accurate, personalized disease predictions without requiring any personal data, ensuring privacy and convenience for users. Additionally, the model's capacity to predict a wide range of diseases based on symptom input is a unique feature not commonly found in existing healthcare tools.

Social Impact/Customer Satisfaction

Our solution aims to revolutionize healthcare accessibility, empowering individuals to make more informed decisions about seeking medical attention. This will lead to reduced delays in

treatment, potentially preventing the progression of certain conditions. The convenience and accuracy of our tool are poised to significantly enhance customer satisfaction and trust in online health resources.

Business Model (Revenue Model)

We propose a freemium model where basic access to the tool for patients remains free of charge. Premium features, such as enhanced visualizations, personalized health recommendations, and priority customer support, will be available through a subscription-based service. For doctors, a licensing fee for integrating the model into their online consultations will ensure sustainable revenue generation.

Scalability of the Solution

Our model is designed to be highly scalable, capable of handling increased user load and expanding to cater to additional diseases and symptoms. Cloud-based architecture allows for seamless integration with various healthcare platforms, ensuring adaptability to evolving industry standards and demands. This scalability positions us to meet the growing needs of both patients and healthcare professionals.