Project Design Phase-II
Proposed Solution

Date	19 October 2023
Team ID	PNT2022TMID593076
Project Name	Project - Disease Prediction using Machine Learning
Maximum Marks	2 Marks

Proposed Solution:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Early disease detection is essential for effective treatment. However, the traditional process of seeking a diagnosis at a hospital is not only time-consuming but also costly.
2.	Idea / Solution description	Specifically trained machine learning models can be used which can analyze patient data and predict the likelihood of the presence of a particular disease allowing individuals to take prompt measures.
3.	Novelty / Uniqueness	Using machine learning models for disease prediction results in a drastic reduction in both time and expenses when compared to

		traditional diagnostic methods. Being a machine learning model,it can be fed with vast and complex datasets which can reveal new insights into disease risk factors and predictions.
4.	Social Impact / Customer Satisfaction	By identifying people who are at high risk of developing a particular disease,machine learning can help improve the early diagnosis and treatment of that disease. This leads to better outcomes thus saving many lives.risks. The implementation of advanced technology may also create new job opportunities, including roles related to system maintenance, supervision, and oversight.
5.	Business Model (Revenue Model)	The core business revolves around the development, licensing, and sale of the disease prediction machine learning technology.The business focuses on data security, compliance, and continuous improvement, with potential revenue streams from subscriptions, data services, and research collaborations. The model aims to enhance patient outcomes, reduce healthcare costs, and facilitate data-driven decision-making while ensuring patient and healthcare professional satisfaction. Disease prediction using machine learning can help pharmaceutical companies,medical device companies and other healthcare providers to

		reduce costs by improving the efficiency of their operations.
6.	Scalability of the Solution	It can be achieved by expanding data sources, and enhancing model development. It involves accommodating a growing user base, complying with evolving healthcare regulations, and adapting marketing and sales efforts. Collaboration with more research institutions and diversified monetization strategies contributes to a better and reliable model.