Project Design Phase-I
Proposed Solution Template

Date	23 October 2023
Team ID	Team-592607
Project Name	Diabetes Prediction Using Machine Learning
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Identifying individuals who are at high risk of developing diabetes, so that they can be targeted with preventive interventions.
2.	Idea / Solution description	Develop a machine learning model that predicts the likelihood of an individual developing diabetes based on their medical history, lifestyle, and genetic factors.
3.	Novelty / Uniqueness	1.Genomic Data Fusion 2.Microbiome Analysis 3.Explainable AI (XAI). 4. Wearable Sensor Data

4.	Social Impact / Customer Satisfaction	Early detection of diabetes risk can help prevent or delay the onset of the disease, leading to improved public health outcomes and reducing the burden on healthcare systems.
5.	Business Model (Revenue Model)	1.Subscription-Based Model 2.Freemium Model 3.Healthcare Provider Partnerships 4.One-Time Predictions
6.	Scalability of the Solution	1.Data Handling and Storage 2.Data Preprocessing 3.Model Selection 4.Parallel Processing 5. Model Serving