Project Design Phase-I
Proposed Solution Template

Date	06 May 2023
Team ID	NM2023TMID20537
Project Name	Project - Cancer Mortality & Incidence Rates Classification Using ML

Proposed Solution Template:

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

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The goal of this project is to predict the status of cancer incidence or mortality rate based on a set of features to provide important insights into the prevalence and impact of cancer within a given population, as well as how this burden is changing over time.
2.	Idea / Solution description	Our project aims to develop a machine learning model that can accurately predict cancer mortality and incidence rates based on a set of input variables.
3.	Novelty / Uniqueness	This project has a good amount of reasons to be called unique. Such as use of Machine Learning, combination of multiple data sources, public health impact, open source, etc.
4.	Social Impact / Customer Satisfaction	It has the potential to improve public health outcomes and customer satisfaction by providing more accurate and reliable predictions of cancer rates. By identifying populations at high risk of cancer and areas with limited healthcare access, policymakers can develop targeted strategies to improve prevention, early detection, and treatment, ultimately improving health outcomes for the population.
5.	Business Model (Revenue Model)	We aim to do our project as service oriented and hence we haven't yet thought about a revenue path. But as the project flows and if we get an idea that could benefit both common people and us, we would like to consider it.

6.	Scalability of the Solution	By leveraging distributed computing frameworks, cloud computing services, algorithm optimization and AutoML tools, the project can be scaled to handle larger and more complex datasets, making it more useful to healthcare professionals and policymakers. But for now we have been considering implementing effective algorithms regarding scalability. But would like to further implement all the above mentioned tools if more scalability is required.