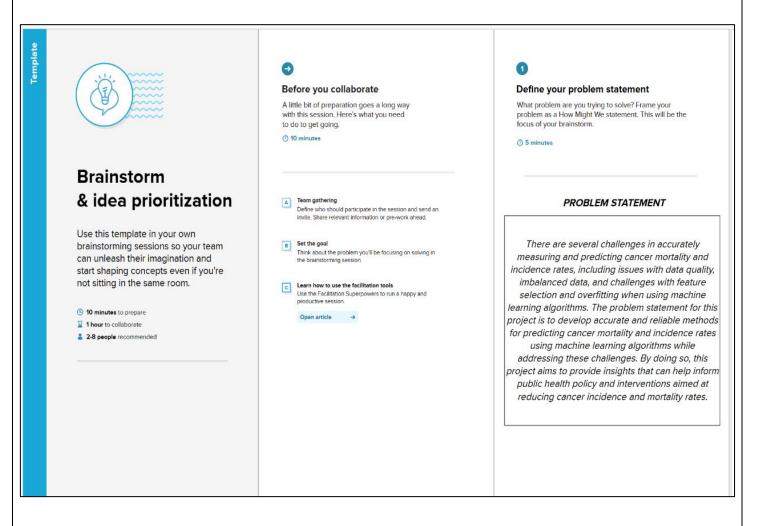
# Ideation Phase Brainstorm & Idea Prioritization

Date	29 April 2023
Team ID	NM2023TMID01905
Project Name	Cancer Mortality & Incidence Rates Classification Using Machine Learning
Maximum Marks	4 Marks

#### **Brainstorm & Idea Prioritization:**

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

Step-1: Team Gathering, Collaboration and Select the Problem Statement





#### Brainstorm

Write down any ideas that come to mind that address your problem statement.

(i) 10 minutes

### Person 1

Imbalanced data handling

Collect and

preprocess

clinical data

Use data

techniques

such as

histograms,

scatter plots

predict Incidence rates for specific cancer types

assist healthcare

professionals In

Identifying

individuals at high

risk of developing

carreer

identify trends and patterns in cancer

a machine learning algorithm that can accurately classify different types of cancer

lifestyle data to visualization build a more comprehensive predictive model of cancel mortality

appropriate evaluation metrics, such as accuracy. precision

## Person 2

providing financial assistance to those who need it.

Comparing cancer mortality rates between different regions

to optimize the performance of cancer mortality and incidence rate predictions

Identifying risk factors of incidence rate

Preprocessing teaks can include data cleaning, normalization, and handling missing values.

Analyzing demographic data

Displaying the results through visualization for better understanding

Analyzing

treatment data

to identify

treatments in

educing cancer

mortality rates

Investigating the impact of mental health

## Person 3

Demographic data to build a more comprehensive cancer mortality

predicting

the cancer

at the early

stages.

should aim to

Improve

access to

quality cancer

treatment

Data preprocessing

clinical data to build a more comprehensive predictive model of cancer mortality

should provide support services to cancer patients and their families

predict cancer mortality for specific cancer types

Examining the impact of health literacy on cancer mortality rate

Different algorithm that classifies differnt types of cancer

## Person 4

alming at the factors which makes the cancer at risk

Identifying risk factors for specific types of cancer

accurately classifies the stage of cancer

promote policies that protect public health.

should do data processing correctly

improve the accuracy of the model.

regulate environmental factors

collecting

the data

from various

regions

classification model that predicts whether en individual is at cancer mortality.



#### Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

20 minutes

collecting the data from various regions Demographic data to build a more comprehensive predictive model of cancer mortality

Analyzing demographic data Comparing cancer mortality rates between different regions

Use data visualization techniques such as histograms, scatter plots lmbalanced data handling

> should do data processing correctly

aiming at the factors which makes the cancer at risk

Identifying risk factors of incidence rate

promote policies that protect public health.

should provide support services to cancer patients and their families providing financial assistance to those who need it.

Collect and preprocess clinical data

Displaying the

results through

visualization for

better

understanding

clinical data to build a more comprehensive predictive model of cancer mortality

Analyzing treatment data to identify treatments in reducing cancer mortality rates Data preprocessing

Preprocessing tasks can include data cleaning, normalization, and handling missing values.

to optimize the performance of cancer mortality and incidence rate predictions

predict cancer mortality for specific cancer types Identifying risk factors for specific types of cancer

predict incidence rates for specific cancer types

#### **Step-3: Idea Prioritization**

