

IDEATION PHASE

PROBLEM STATEMENT

DATE	08-11-2022
TEAM ID	PNT2022TMID45158
PROJECT NAME	VISUALIZING AND PREDICTING HEART DISEASE WITH AN INTERACTIVE DASHBOARD
MAXIMUM MARKS	2 MARK

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Who does the problem affect?	The majority of people who die of coronary heart disease are 65 or older. While heart attacks can strike people of both genders in
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	old age, women are at greater risk of dying.
What are the boundaries of the problem?	Several health conditions, your lifestyle, and your age and family history can increase your risk for heart disease.
What is the issue?	If the person is affected by heart disease, then it produces the side effects like Chest pain, chest tightness, chest pressure, chest discomfort (angina), Shortness of breath, pain in the neck, jaw, throat, upper belly area or back.
When does the issue occur?	Heart disease and the other conditions that lead to it can happen at any age. High rates of obesity and high blood pressure among younger people are putting them at risk for heart disease earlier in their life.
Where is the issue coming?	Coronary artery disease happens when coronary arteries struggle to supply the heart with enough blood, oxygen and nutrients. Cholesterol deposits, or plaques, are almost always to blame. These build-ups narrow your arteries, decreasing blood flow to your heart. This can cause chest pain, shortness of breath or even a heart attack.
Why is it important to fix the problem?	Predict if the patient suffers from heart disease. The health professional enters the input values from the patient's health report. The data is fed into model which predicts the probability of having heart disease.
Which solution can be used to address the issue?	A machine learning powered web application model with the strong building of algorithm that helps to identify and predicts the disease with the identification of symptoms. It processes the breathing signals using a neural network that infers whether the person has heart disease, and if they are identified then it assesses the severity of their disease in accordance with the Movement Disorder Society Unified Heart Disease using ML algorithms.
Which methodologies are used to solve the issue?	Supervised and Un-supervised machine learning, Data mining, Computer vision with OpenCV, Python web application interface -

	Flask, Jupyter Notebook, IBM Cloud.
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THANK YOU