Ideation Phase

Define the problem statements

Date	30 April 2023
Team ID	NM2023TMID00211
Project Name	Project-CognitiveCare: Early Intervention for Alzheimer's Disease
Maximum Marks	2 Marks

Problem Statement:

Alzheimer's disease is a progressive and irreversible neurological disorder that affects a growing number of older adults worldwide, leading to significant personal and societal burden. Early detection of the disease is critical for providing timely treatment and support for patients and their families. While medical imaging techniques such as MRI can provide valuable information about brain structure, accurately detecting early signs of Alzheimer's disease from these images is a challenging task. Therefore, there is a need for advanced deep learning models like Xception to analyze medical imaging data and improve the accuracy of early detection and diagnosis of Alzheimer's disease

Problem Statement For Early Intervention For Alzheimer's Disease

Problem Statement	I am	I'm trying to	But	Because	Which makes me feel
PS-1	Alzheimer disease patient	Know the stage of my disease	Available methods for predicting Alzheimer disease is not efficient	The website is not responsive and doesn't have a mobile version	Annoyed
PS-2	Primary care physician	Identify patients who may be at risk of developing Alzheimer's disease	I'm not sure about how much accurate they are	I have to provide appropriate medicines according to their stage	Doubtful in providing medicines
PS-3	A care taker for a Alzheimer disease patient	Better understand the progression of the disease and provide more targetted and effective care	It takes too long to respond	I have to provide a effective care	Helpless at times

PS-4	A member of patient advocacy group	Raise awareness about Alzheimer's disease risk factors	I'm unsure about the resources and strategies to use	I want to provide awareness in rural areas	Helpless and depressed
PS-5	Member of health care providers	Develop personalized treatment plans for individuals at risk of developing Alzheimer's disease	Current methods for predicting Alzheimer's disease is limited	I have to inform patients with correct decisions about health	limited in providing optimal care