Project Initialization and Planning Phase

Date	15th June 2024
Team ID	SWTID1720080161
Project Name	Revolutionizing Liver Care : Predicting Liver Cirrhosis Using Advanced Machine Learning Techniques
Maximum Marks	3 Marks

Problem Statement Definition :

The project is focused on creating an advanced machine learning-based predictive model to identify the onset or progression of liver cirrhosis in patients. Liver cirrhosis, a severe condition marked by liver tissue scarring due to prolonged damage, requires early detection and intervention to improve patient outcomes and avoid complications. By examining diverse patient data, including medical history, lab results, imaging scans, and lifestyle factors, the model aims to predict the likelihood of liver cirrhosis. This will assist healthcare professionals in making well-informed decisions regarding patient care.

I am	I'm trying to	But	Because	Which makes me feel
A HEALTHCARE PROVIDER	ASSESS THE RISK OF PATIENTS DEVELOPING LIVER CIRRHOSIS	I NEED ASSISTANCE IN TREATMENT PLANNING	I HAVE RESOURCE CONSTRAINTS - LIMITED AVAILABILITY OF DIAGNOSTIC EQUIPMENT AND SPECIALISTS	CHALLENGED IN DELIVERING COMPREHENSIVE TREATMENT PLANS

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
Predicting Liver Cirrhosis Using Advanced Machine Learning Techniques	A Healthcare Provider	Assess the risk of patients developing liver cirrhosis	I need assistance in treatment planning	I have resource constraints- limited availability of diagnostic equipment and specialists	Challenged in delivering comprehensive treatment plans