Project Initialization and Planning Phase

Date	27th July 2024
Team ID	740076
Project Name	FETAL AI:USING MACHINE LEARNING TO PREDICT AND MONITOR FETAL HEALTH
Maximum Marks	3 Marks

Define Problem Statements (Customer Problem Statement Template):

Expectant mothers and healthcare providers often struggle to predict and monitor fetal health, leading to delayed identification of potential complications and inadequate prenatal care. This can result in increased risks of adverse pregnancy outcomes, affecting both maternal and fetal well-being. The goal is to develop an AI-driven solution using machine learning to accurately predict and monitor fetal health in real-time, providing timely alerts and insights. This system would enhance prenatal care by enabling early intervention, reducing risks, and improving health outcomes for mothers and babies. Implementing advanced data analytics and machine learning algorithms to analyze fetal health indicators from various sources ensures accurate and reliable predictions.

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	An expectant mother concerned about the health and development of my unborn child.	Ensure my baby is developing healthily and safely throughout my pregnancy.	I lack access to real-time, non-invasive fetal health monitoring tools that provide reliable insights.	Traditional monitoring methods do not offer continuous, real-time data, which limits my ability to respond promptly to potential health concerns.	Anxious and worried about missing potential health issues that could impact my baby's wellbeing.

PS-2	A healthcare provider responsible for monitoring the fetal	Provide accurate and timely monitoring of fetal health to	Current methods are often invasive, costly, and require frequent hospital visits,	The tools available do not integrate advanced analytics to provide actionable	Frustrated and concerned about not being able to deliver the highest level of care to my
	health of my patients.	expectant mothers.	making it difficult to monitor fetal health continuously.	insights, requiring significant time and resources to obtain necessary information.	patients and manage their pregnancies effectively without frequent hospital visits.