Ideation Phase
Define the Problem Statements

Date	06 May 2023
Team ID	NM2023TMID15405
Project Name	Identifying Perinatal Health Risks using Machine Learning Techniques
Maximum Marks	2 Marks

Customer Problem Statement:

Perinatal health refer to the health of the mother and baby during pregnancy, childbirth, and the postpartum period. Perinatal health risk can include complications during pregnancy and maternal and neonatal mortality.

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	I am a researcher working on a project to develop a machine learning based perinatal health risk predictors. Perinatal health refer to the period before and after birth, including pregnancy, childbirth, and the postpartum period.	Develop a model that can predict perinatal health risk by analysing various factors such as maternal age, medical history, lifestyle habits, and foetal measurement.	Developing such a model requires a large amount of data from the diverse sources including electronic health records, medical imaging, and patient questionnaires	The complexity of the data also require sophisticated machine learning techniques, such as deep learning and natural language processing, to extract meaningful patterns and insights	All these challenges can make me feel over whelmed at times, but I am motivated by the potential impact of this project on improving perinatal health care outcomes.
PS-2	Identifying and predicting perinatal health risk can help health care provider measure and provide appropriate care to ensure the best possible outcomes for both mother and baby	The model should be able to identify the potential risks such as preterm labour , preeclampsia, gestational diabetes, and the foetal growth restrictions.	This makes data collection and cleaning a challenging task, as the data may be incomplete , inconsistent or contain errors. A good	This can be time consuming and computational intensive process ,which requires a high level of expertise in both machine learning and perinatal health.	