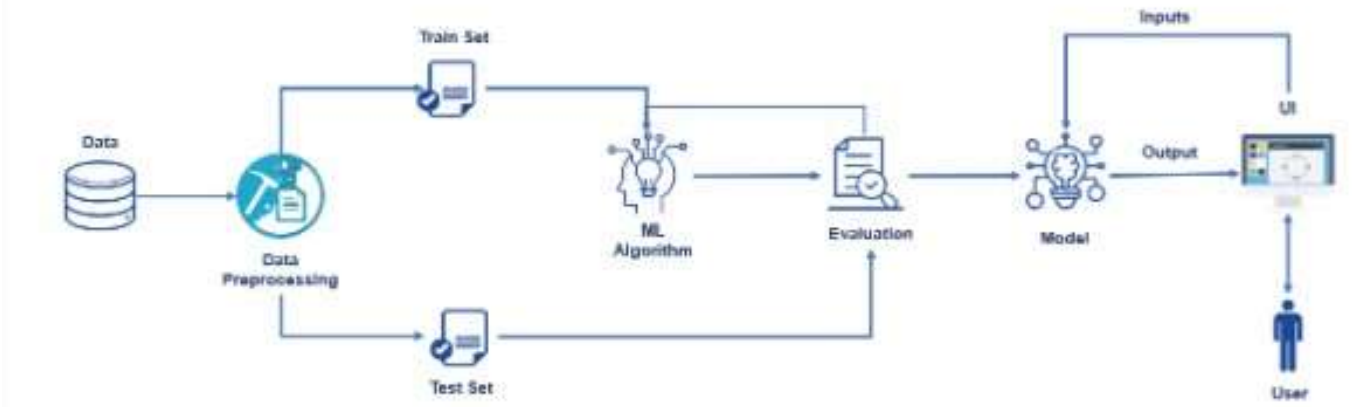
Project Initialization and Planning Phase

Date	20-FEB-2026
Team ID	LTVIP2026TMIDS59772
Project Name	Electric Motor Temperature Prediction using Machine Learning
Maximum Marks	2 Marks

Define Problem Statements (Customer Problem Statement Template):

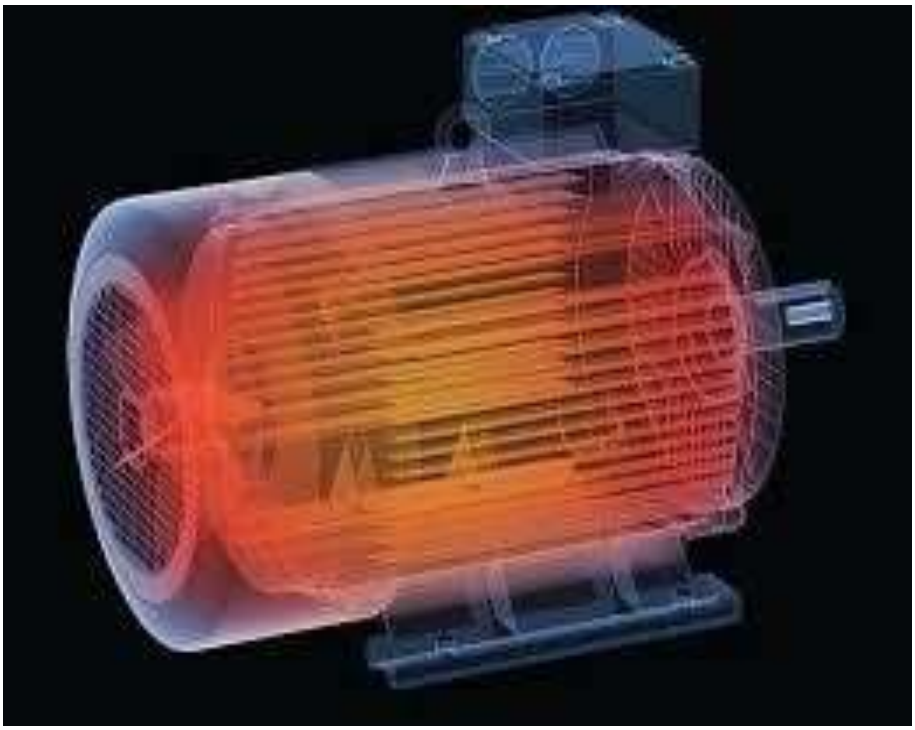
Electric motors are integral to many industrial processes, and their performance can be significantly affected by temperature fluctuations. Excessive heat can lead to inefficiencies, failures, and costly downtime. For organizations, implementing a predictive maintenance strategy based on temperature forecasts can optimize operations and extend motor lifespan.

The goal of this project is to leverage machine learning techniques to develop a predictive model that accurately forecasts the temperature of electric motors based on various operational parameters. This will facilitate proactive maintenance and enhance the reliability of electric motors. We will be doing flask integration and IBM deployment.



I am	Describe customer with 3-4 key characteristics - who are they?	Describe the customer and their attributes here
I'm trying to	List their outcome or "job" the care about - what are they trying to achieve?	List the thing they are trying to achieve here
but	Describe what problems or barriers stand in the way – what bothers them most?	Describe the problems or barriers that get in the way here
because	Enter the "root cause" of why the problem or barrier exists – what needs to be solved?	Describe the reason the problems or barriers exist
which makes me feel	Describe the emotions from the customer's point of view – how does it impact them emotionally?	Describe the emotions the result from experiencing the problems or barriers

Example:



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	-	-	-	-	-