

Ideation Phase

Define the Problem Statements

Date	31 January 2025
Team ID	LTVIP2026TMIDS42870
Project Name	electric motor temperature prediction using machine learning
Maximum Marks	2 Marks

Customer Problem Statement Template:

Create a problem statement to understand your customer's point of view. The Customer Problem Statement template helps you focus on what matters to create experiences people will love.

A well-articulated customer problem statement allows you and your team to find the ideal solution for the challenges your customers face. Throughout the process, you'll also be able to empathize with your customers, which helps you better understand how they perceive your product or service.

Customer Problem Statement Template					
am	I'm trying to	But	Because	Which makes me feel	
I am an industrial maintenance engineer responsible for monitoring electric motors in a manufacturing plant	I'm trying to · prevent motor overheating and unexpected breakdowns	But I cannot accurately predict temperature rise under varying load conditions	Because the current system only reacts after overheating occurs and lacks predictive analytics	Which makes me feel frustrated and pressured due to unexpected downtime and repair costs	

Reference: <https://miro.com/templates/customer-problem-statement/>

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	an industrial maintenance engineer	prevent motor overheating and unexpected breakdowns	I cannot accurately predict temperature rise under varying load conditions	the current system only reacts after overheating occurs and lacks predictive analytics	frustrated and pressured due to unexpected downtime and repair costs