

## Ideation Phase

### Define the Problem Statements

|               |  |
|---------------|--|
| Date          | 02/02/2026   |
| Team ID       | LTVIP2026TMIDS76616  |
| Project Name  | HematoVision: Advanced Blood Cell Classification Using Transfer 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.

|                            |  |   |
|----------------------------|--|---|
| <b>I am</b>                | Describe customer with 3-4 key characteristics - who are they?                                 | Describe the customer and their attributes here                             |
| <b>I'm trying to</b>       | Enter their outcome or "GO" the case about - what are they trying to achieve?                  | List the thing they are trying to achieve here                              |
| <b>but</b>                 | Describe what problems or barriers stand in the way - what bothers them most?                  | Describe the problems or barriers that get in the way here                  |
| <b>because</b>             | Enter the "root cause" of why the problem or barrier exists - what needs to be solved?         | Describe the reason the problems or barriers exist                          |
| <b>which makes me feel</b> | 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 |

| <b>Problem Statement (PS)</b> | <b>I am (Customer)</b>  | <b>I'm trying to</b>   | <b>But</b>  | <b>Because</b>   | <b>Which makes me feel</b>  |
|-------------------------------|---|--|---|--|---|
| PS-1                          | A medical laboratory technician or hematologist examining blood samples.                            | Accurately identify and classify different types of blood cells from microscopic images. | Manual classification is time-consuming and prone to human error, especially when large numbers of samples need to be analyzed. | Visual inspection depends heavily on expertise and fatigue can reduce accuracy.    | Stressed about misclassification, delayed diagnosis, and reduced efficiency in laboratory workflow. |
| PS-2                          | Stressed about misclassification, delayed diagnosis, and reduced efficiency in laboratory workflow. | Speed up blood test analysis while maintaining high diagnostic accuracy.                 | There is a shortage of expert hematologists and increasing workload.  | Traditional microscopic analysis requires skilled professionals and manual effort. | Concerned about delays in patient reports and operational inefficiency.                             |