

## Ideation Phase

### Define the Problem Statements


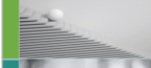



<b>Date</b>	20-Jan-2026
<b>Team ID</b>	LTVIP2026TMIDS65618
<b>Project Name</b>	Hematovision: Advanced Blood Cell Classification using Transfer Learning
<b>Maximum Marks</b>	4 Marks

#### Customer Problem Statement Template:

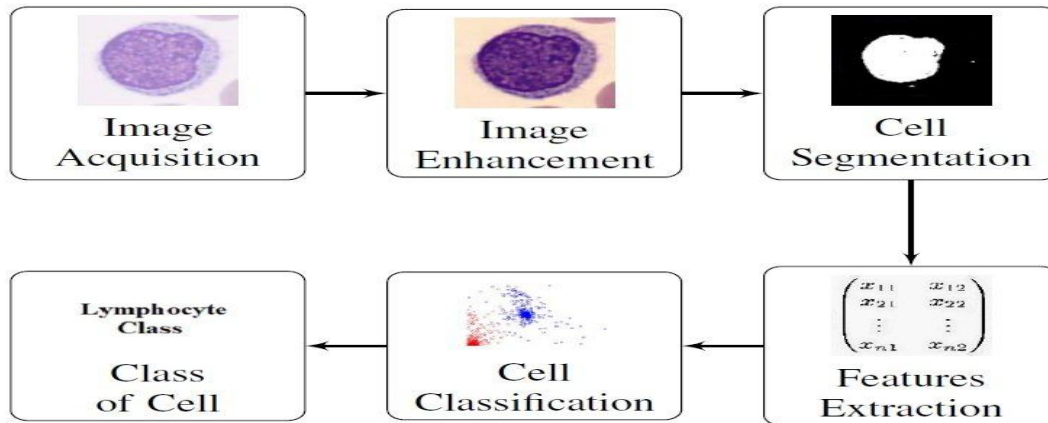
Medical professionals including hematologists, pathologists, laboratory technicians, and healthcare providers, especially in hospitals, diagnostic labs, and rural health centers. The manual classification of blood cells under a microscope is time-consuming, error-prone, and requires expert interpretation. In many regions, there is a shortage of skilled professionals, and early diagnosis of blood-related diseases (like leukemia or anemia) often gets delayed due to limited access to reliable diagnostic tools. The primary goal is to automate and enhance the process of blood smear analysis, which is critical for diagnosing a range of conditions such as leukemia, anemia, infections, and other hematologic disorders. To enhance real-world applicability, the model can be integrated into a web or mobile application, allowing technicians or clinicians to upload microscope images and receive instant analysis and classification results.

**CUSTOMER PROBLEM STATEMENT TEMPLATE**

CUSTOMER PROBLEM STATEMENT

	<b>I am...</b>	Insert content here.
	<b>I am trying to ...</b>	Insert content here.
	<b>But ...</b>	Insert content here.
	<b>Because ...</b>	Insert content here.
	<b>Which makes me feel ...</b>	Insert content here.

## Example:



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Healthcare professional working	accurately classify different types of blood cells from microscope	manual process is time-consuming, requires a high level of expertise	we lack access to automated, intelligent tools that can assist with precise	overwhelmed, under-resourced
PS-2	Junior lab technician	to learn and correctly classify different types of blood cells	I struggle with identifying subtle differences between cell types, especially when under pressure or dealing with abnormal samples	the process is complex and subjective, and I don't always have immediate access to expert guidance	unsure, stressed, and afraid of making diagnostic mistakes that could impact patient care.