

Ideation Phase

Define the Problem Statements

Date	19 February 2026
Team ID	LTVIP2026TMIDS47037
Project Name	HematoVision Blood Cell Classification
Maximum Marks	2 Marks

ProjectName: HematoVision – Blood Cell Classification

1. Problem Statement Template 1 (Basic)

Medical lab technicians are spending too much time manually classifying blood cells, which results in delayed diagnoses. They need a solution that accurately classifies blood cells automatically, saving time and improving efficiency.

2. Problem Statement Template 2

As a hematologist, I want a software that can automatically classify different blood cells so that I can diagnose patients faster and reduce manual errors.

3. Problem Statement Template 3 (Problem + Impact + Evidence)

- **Problem:** Manual blood cell classification is slow and error-prone.
 - **Impact:** Delays lab results and may lead to misdiagnosis.
 - **Evidence:** Studies show technicians spend an average of 30 minutes per blood smear, with an error rate of 5–10%.
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4. Problem Statement Template 4 (Current vs Desired State)

Currently, lab technicians classify blood cells manually, leading to slow processing times and errors. Ideally, an AI-powered system should classify cells automatically with high accuracy.