

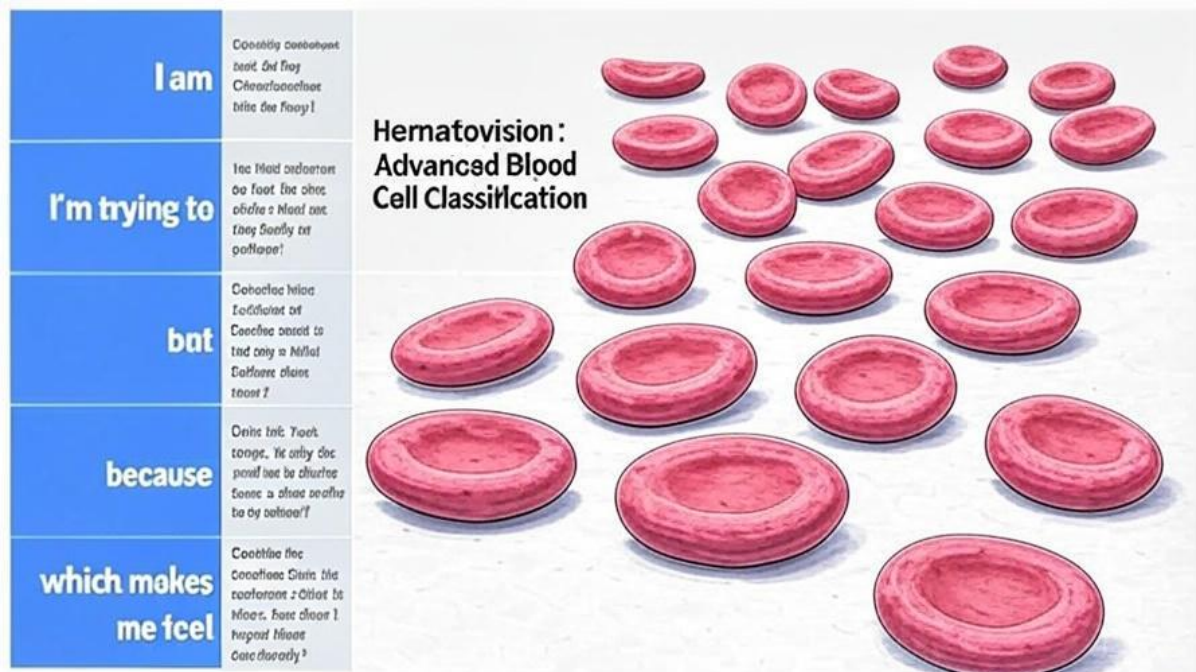
Ideation Phase

Define the Problem Statements

Date	31 December 2026
Team ID	LTVIP2025TMIDS66117
Project Name	Hematovision: advanced blood cell classification using transfer learning
Maximum Marks	2 Marks

Hematovision Problem Statement Template:

The accurate identification and classification of blood cells are critical for diagnosing various hematological disorders, such as anemia, leukemia, and infections. Manual microscopic analysis of blood smears, while effective, is time-consuming, labor-intensive, and prone to human error due to variability in expertise and fatigue. Existing automated systems often lack the precision and robustness needed to handle diverse blood cell types and abnormalities under varying imaging conditions. There is a pressing need for an advanced, automated blood cell classification system that leverages cutting-edge machine learning techniques to provide accurate, efficient, and scalable analysis of blood smears for medical diagnostics.



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

Example:



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	I am a hematologist with expertise in blood analysis, a focus on precision, and a need for efficient tools.	I'm trying to accurately classify blood cells to diagnose diseases quickly and reliably.	But the manual classification process is slow, error-prone, and struggles with rare cells.	Because current methods lack advanced automation and precision for complex cell variations.	Which makes me feel frustrated and anxious about delays and misdiagnoses.

