

## Ideation Phase

### Define the Problem Statements

Date	28 June 2025
Team ID	LTVIP2025TMID60119
Project Name	Hematovision
Maximum Marks	2 Marks

#### Customer Problem Statement :

HematoVision aims to develop an accurate and efficient model for classifying blood cells by employing transfer learning techniques. Utilizing a dataset of 12,000 annotated blood cell images, categorized into distinct classes such as eosinophils, lymphocytes, monocytes, and neutrophils, the project leverages pre-trained convolutional neural networks (CNNs) to expedite training and improve classification accuracy. Transfer learning allows the model to benefit from pre-existing knowledge of image features, significantly enhancing its performance and reducing computational costs. This approach provides a reliable and scalable tool for pathologists and healthcare professionals, ensuring precise and efficient blood cell classification.

Statement	HematoVision Version
<b>I am</b>	A lab technician or pathologist in a hospital or rural clinic, often overworked, detail-focused, and time-constrained.
<b>I'm trying to</b>	Accurately and quickly classify different types of blood cells from microscope images for diagnosis.
<b>But</b>	I face difficulty due to manual processes, fatigue, limited staff, and risk of human error.
<b>Because</b>	The current process is fully manual, slow, and relies on years of training and constant focus to be accurate.
<b>Which makes me feel</b>	Frustrated, overwhelmed, and worried about giving incorrect diagnoses or delaying patient treatment.

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Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	a lab technician or pathologist	classify blood cells quickly and accurately	it's time-consuming and error-prone	the process is manual and requires constant focus	Frustrated, overwhelmed, and worried about giving incorrect diagnoses or delaying patient treatment.