

# Project Design Phase

## Solution Architecture

**Date:** 15 February 2025

**Team ID:** LTVIP2026TMIDS91486

**Project Name:** HematoVision – Intelligent Blood Cell Classification System

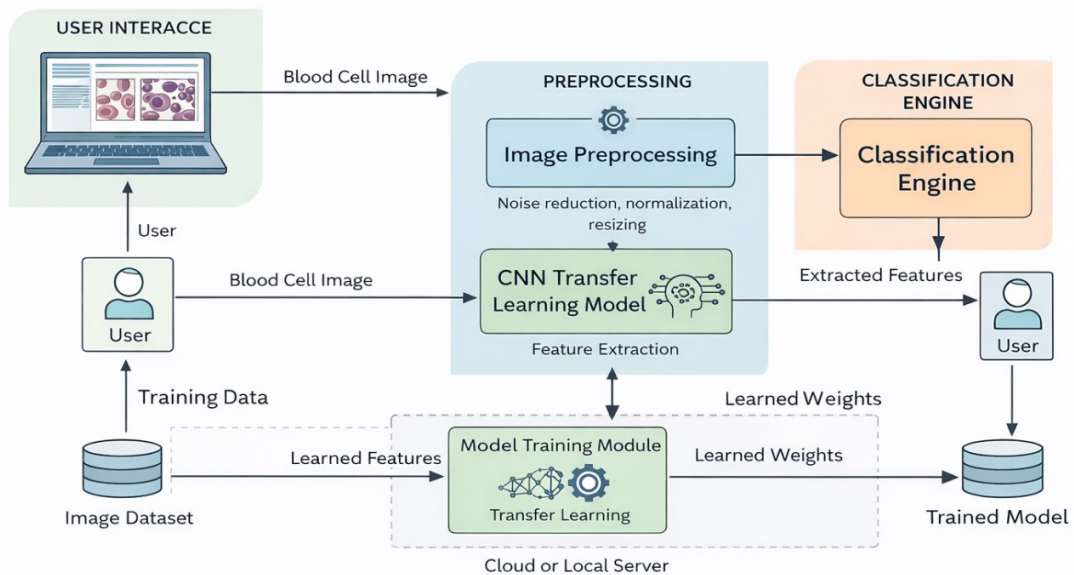
**Maximum Marks:** 4 Marks

## Solution Architecture

Solution architecture bridges the gap between the identified problem and the implemented technological solution. HematoVision follows a **Machine Learning–Driven Architecture** designed to automate blood cell classification using transfer learning.

The architecture ensures:

- ✓ Efficient data processing
- ✓ Accurate model inference
- ✓ Modular system design
- ✓ Scalable ML integration



**Figure 1:** Architecture and data flow of the HematoVision blood cell classification system