

Project Design Phase Solution Architecture

Date	15 February 2025
Team ID	LTVIP2026TMIDS76616
Project Name	HematoVision – Advanced Blood Cell Classification Using Transfer Learning
Maximum Marks	4 Marks

Solution Architecture:

The solution architecture of *HematoVision* defines how the system components interact to provide automated blood cell classification using Artificial Intelligence.

The architecture bridges the gap between the healthcare problem (manual blood cell analysis delays) and a technology-driven AI solution using deep learning.

- Automate blood cell classification using AI.
- Reduce manual workload of lab technicians.
- Provide faster and accurate diagnostic support.
- Ensure scalable and secure web-based deployment.

Example - Solution Architecture Diagram:

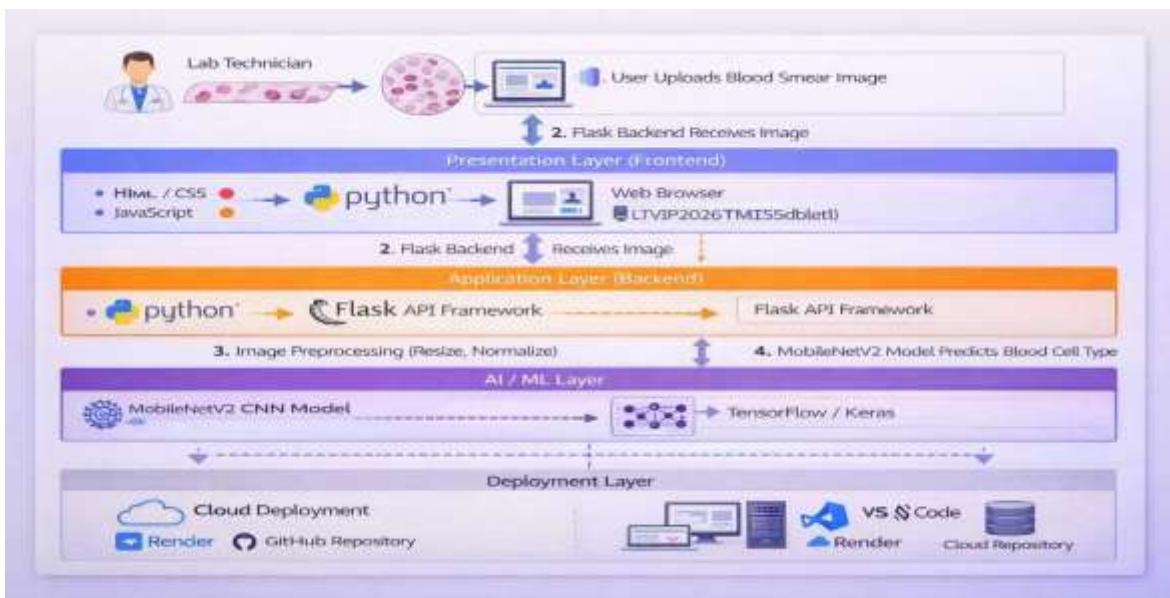


Figure 1: Architecture and data flow of the voice patient diary sample application

Reference: <https://aws.amazon.com/blogs/industries/voice-applications-in-clinical-research-powered-by-ai-on-aws-part-1-architecture-and-design-considerations/>