Problem-Solution fit canvas 2.0

Our primary customers are medical professionals, diagnostic labs, and pathology centers

researchers and educational institutions can benefit from automated analysis to assist in

who require quick and accurate blood cell classification. Additionally, medical

Purpose / Vision: Empowering healthcare with Al-driven blood cell classification for faster, accurate, and accessible diagnostics.

1. CUSTOMER SEGMENT(S)

training, diagnosis, and research purposes.

2. JOBS-TO-BE-DONE / PROBLEMS

Automating Blood Cell Classification: Eliminates manual errors and saves

☐ Supporting Medical Diagnosis: Assists healthcare professionals in making

Enabling Access in Resource-Limited Settings: Provides a low-cost diagnostic

Standardizing Interpretation: Reduces variation in results caused by differing

aid that can run on standard hardware, reducing reliance on high-end lab equipment.

Customers are triggered to act when they face diagnostic delays, see successful

use of AI tools in labs, read research on automated cell analysis, or observe

quicker, more accurate decisions in diagnosing infections or blood disorders.

levels of human expertise, especially in rural or overloaded clinics.

time by automating the identification of eosinophils, lymphocytes, monocytes, and

CS

6. CUSTOMER

can impact diagnostic accuracy.

CC

5. AVAILABLE SOLUTIONS

AS

BE

Explore

AS

Focus on J&P, tap into BE,

understand

Extract online & offline CH of BE

CH

 Manual Microscopic Examination – Performed by trained pathologists or lab technicians using traditional microscopes. It's accurate but time-consuming and labor-intensive.

 Automated Hematology Analyzers – Expensive lab equipment used in advanced hospitals. They offer speed and consistency but are often unaffordable and inaccessible in smaller clinics or rural settings.

 Outsourcing to Diagnostic Labs – Patients' samples are sent to centralized labs. While accurate, it leads to delays in results and increased costs.

 Basic Mobile Health Apps – Few experimental or prototype apps exist, but lack accuracy and regulatory approval.

Define CS, fit into

Focus on J&P, tap into BE, understand

Identify strong TR & EM

3. TRIGGERS

4. EMOTIONS: BEFORE / AFTER

peers adopting efficient digital diagnostic systems.

Before using the solution, customers often feel uncertain, anxious, or overwhelmed by manual diagnosis and time delays. After adopting the tool, they feel more confident, assured, and in control with faster, accurate, and automated results.

J&P

9. PROBLEM ROOT CAUSE

The root cause of the problem is the time-consuming and error-prone nature of manual blood cell classification, which requires skilled hematologists and advanced laboratory setups. In many regions, especially rural or resource-limited areas, there is a shortage of trained professionals, and the demand for faster diagnostics has increased due to rising patient loads and emerging diseases. This has created an urgent need for automated, reliable, and scalable diagnostic solutions that reduce human dependency and accelerate medical decision-making.

Customers such as diagnostic labs or small clinics may face budget limitations, restricting access

to expensive diagnostic tools. Limited computing resources and lack of stable internet

connectivity in rural or remote areas can also hinder the use of cloud-based or high-compute

solutions. Additionally, shortage of trained technicians or inconsistent manual interpretations

RC

7. BEHAVIOUR

Customers manually examine blood cells under a microscope, refer to senior experts, or use online

resources and training materials to classify cell types. Some engage in additional learning or advocacy to improve diagnostic accuracy and access to better tools.

TR

EM

10. YOUR SOLUTION

- ✓ Solves the identified problems
- Fits within the customer's limitations (cost, access, skill)
- Aligns with their behavior and motivations

SL

8. CHANNELS of BEHAVIOUR

- 8.1 Search for automated blood cell classification tools on Google or medical forums
- 8.2 Download academic papers or case studies on AI-based hematology solutions
- 8.3 Watch YouTube demos of blood analysis or diagnostic tools
- 8.4 Use medical software platforms or mobile apps for diagnostic assistance
- 8.5 Join forums or groups (like Reddit, LinkedIn, or ResearchGate) to discuss medical AI

8.2 OFFLINE

Manually examine blood smears using microscopes in pathology labs

Consult senior doctors or pathologists for second opinions

Attend medical conferences or workshops to learn about new diagnostic tools

Contact diagnostic equipment vendors for demos or pricing

Review institutional procurement options for lab upgrades



