

Ideation Phase

Define the Problem Statements

Date	31 January 2025
Team ID	LTVIP2025TMID46233
Project Name	Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management
Maximum Marks	2 Marks

Customer Problem Statement Template:

Poultry farmers often face challenges in accurately and quickly diagnosing diseases, leading to high mortality rates and economic losses. Current solutions like lab testing or veterinary visits are costly, slow, and not always accessible. Our project uses transfer learning to build an AI-powered system that classifies poultry diseases from images, offering a fast, affordable, and scalable solution for better poultry health management.

Customer problem statement

Defining

I am

A poultry farmer or livestock health worker, typically in rural or resource-limited areas, responsible for maintaining the health of poultry but lacking access to veterinary services and advanced diagnostic tools.

I'm trying to

Detect and diagnose poultry diseases early and accurately to protect my flock, reduce losses, and improve farm productivity.

But

I don't have the resources, expertise, or time to correctly identify diseases, and professional veterinary services are often unavailable or unaffordable.

Because

There is a shortage of accessible, cost-effective and accurate diagnostic tools that work in real-time or in the field, especially in underserved regions.

Which makes me feel

Frustrated, helpless, and constantly worried about potential outbreaks that could destroy my flock and threaten my livelihood.

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Example:

Defining

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<b>Problem Statement (PS)</b>	<b>I am (Customer)</b>	<b>I'm trying to</b>	<b>But</b>	<b>Because</b>	<b>Which makes me feel</b>
<b>PS-1</b> Poultry farmers struggle to diagnose diseases early due to lack of tools and expertise.	A poultry farmer or livestock health worker in a rural or resource-limited area	Detect and diagnose poultry diseases early and accurately	I don't have the tools, time, or access to expert help	There is a lack of affordable, accessible, and reliable diagnostic solutions	Frustrated, helpless, and anxious about the health and safety of my flock
<b>Ps-2</b> Poultry farmers are unable to maximize income due to disease-related losses.	A small or mid-scale poultry farmer depending on healthy livestock for livelihood	Improve productivity and increase income by maintaining healthy flocks	Disease outbreaks reduce flock size and performance	I can't detect illnesses in time or afford veterinary services for early intervention	Worried about financial loss and uncertain about the sustainability of my farm