**Ideation Phase**

**Define the Problem Statements**

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| --- | --- |
| Date | 25 june 2025 |
| Team ID | LTVIP2025TMID45798 |
| Project Name | Smart Sorting: Transfer Learning for Identifying Rotten Fruits and Vegetables |
| Maximum Marks | 2 Marks |

**Customer Problem Statement Template:**

A customer problem statement helps you understand your customer’s challenges to deliver a meaningful solution. For NutriGaze, this focuses on freshness detection of fruits and vegetables to reduce health risks and wastage.

**Reference**

[Customer Problem Statement Template - Miro](https://miro.com/templates/customer-problem-statement/)

**Problem Statement (PS)**

**PS-1**

* I am (Customer):  
  A health-conscious consumer and vendor handling fresh produce.
* I’m trying to:  
  Ensure the fruits and vegetables I buy or sell are fresh and safe for consumption.
* But:  
  It is difficult to identify spoilage accurately through manual inspection, which takes time and is prone to errors.
* Because:  
  Early signs of spoilage are often not visible, and I lack the expertise or tools to detect them reliably.
* Which makes me feel:  
  Anxious about my family’s health or losing customer trust due to potential sale of spoiled produce.

**PS-2**

* I am (Customer):  
  A small-scale farmer and local vendor.
* I’m trying to:  
  Reduce wastage of produce by identifying items that are starting to spoil.
* But:  
  Manual checks are slow, subjective, and I often miss early signs of spoilage.
* Because:  
  I don’t have access to lab tests or advanced quality-check tools.
* Which makes me feel:  
  Frustrated and financially strained when I incur losses due to unsold or returned spoiled produce.

**PS-3**

* I am (Customer):  
  A grocery store quality control staff member.
* I’m trying to:  
  Maintain consistent quality across produce shelves to ensure customer satisfaction.
* But:  
  Checking large volumes of fruits and vegetables manually each day is impractical.
* Because:  
  Manual inspections are labor-intensive and subjective, varying from person to person.
* Which makes me feel:  
  Overwhelmed and concerned about the potential for customer complaints.