# Ideation Phase
# Brainstorm & Idea Prioritization Template

| | |
|---|---|
| Date | 31 January 2025 |
| Team ID | LTVIP2026TMIDS74869 |
| Project Name | Transfer Learning for Identifying Rotten Fruits and Vegetables |
| Maximum Marks | 4 Marks |

**Brainstorm & Idea Prioritization Template:**

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

## Step-1: Team Gathering, Collaboration and Select the Problem Statement

The team gathered to identify real-world problems that can be solved using Artificial Intelligence. Various domains such as healthcare, agriculture, education, and food industry were discussed.

After discussion, the team observed that:

- Food waste is a major global issue.
- Manual inspection of fruits and vegetables is inefficient.
- Quality checking in markets and supermarkets is time-consuming.
- There is no simple automated solution for freshness detection.

**Step-2: Brainstorm, Idea Listing and Grouping**

**Idea List**

1. **AI-based fruit freshness detection system**
2. **Mobile app for vegetable quality scanning**
3. **Smart dustbin that separates waste automatically**
4. **Food expiry date prediction system**
5. **Leaf disease detection system**
6. **Supermarket smart sorting conveyor system**
7. **AI camera for agricultural farms**
8. **Barcode-based quality tracking system**

**Idea Grouping**

**Group 1: Agriculture & Food Quality**

- **Fruit freshness detection**
- **Leaf disease detection**
- **Farm AI camera system**

**Group 2: Smart Waste Management**

- **Smart dustbin**
- **Waste segregation system**

**Group 3: Retail & Supermarket Automation**

- **Smart sorting conveyor**
- **Barcode quality tracking**

**Step-3: Idea Prioritization**

| **Criteria** | **Description** |
|---|---|
| Feasibility | Can be completed within given time |
| Innovation | Unique and creative approach |
| Technical Learning | Use of advanced AI concepts |
| Real-world Impact | Practical usefulness |
| Resource Availability | Dataset & tools available |