

# **Emphasize and discover**

## **Smart Sorting: Transfer Learning for Identifying Rotten Fruits and Vegetables**

Team ID LTVIP2026TMIDS65633

### **Empathy Map Canvas:**

An empathy map is a simple, easy-to-digest visual that captures knowledge about a user's behaviours and attitudes.

It is a useful tool to helps teams better understand their users.

Creating an effective solution requires understanding the true problem and the person who is experiencing it. The exercise of creating the map helps participants consider things from the user's perspective along with his or her goals and challenges.

### **Problem Statement:**

In the agricultural and food industries, ensuring the freshness and quality of fruits and vegetables is essential but highly dependent on manual inspection. This process is time-consuming, inconsistent, and prone to human error, especially under pressure or fatigue.

Our project, Smart Sorting, uses transfer learning and image recognition techniques to identify and classify rotten fruits and vegetables accurately. By leveraging pre-trained deep learning models, the system automates quality control tasks in food processing plants, supermarkets, and smart homes. This not only improves operational efficiency but also significantly reduces food waste and enhances consumer satisfaction.

# EMPATHY MAP: Smart Sorting: Transfer Learning for Identifying Rotten Fruits and Vegetables

