

## Project Initialization and Planning Phase

Date	18 March 2026
Project Name	GreenClassify: Deep learning-based approach for vegetable image classification

**Define Problem Statements (Customer Problem Statement Template):**

**Problem Statement 1: Vegetable Processing Facility Manager**

Section	Description
<b>I am</b>	A manager of a large vegetable processing facility.
<b>I'm trying to</b>	Efficiently sort and categorize incoming shipments of mixed vegetables to maintain a smooth and timely production process.
<b>But</b>	Manual sorting is slow, prone to human error, inconsistent in quality assessment, and leads to production bottlenecks and delays.
<b>Because</b>	Current methods are labor-intensive, lack standardization, and struggle to handle high volumes, resulting in significant inefficiencies and increased costs.
<b>Which makes me feel</b>	Frustrated, stressed, and concerned about meeting production deadlines and maintaining product quality.

**Problem Statement 2: Agricultural Distributor**

Section	Description
<b>I am</b>	A distributor of fresh produce to grocery stores and restaurants.
<b>I'm trying to</b>	Maintain consistent quality standards and ensure the freshness of the vegetables I supply to my customers.
<b>But</b>	Evaluating the quality and freshness of large volumes of vegetables received from various farms is time-consuming and difficult using current manual methods.
<b>Because</b>	Inconsistent quality leads to customer complaints, returns, and potential food waste.
<b>Which makes me feel</b>	Anxious about meeting customer expectations and concerned about the financial impact of product loss.

**Problem Statement 3: Retail Grocery Store Manager**

Section	Description
<b>I am</b>	A manager of a grocery store's produce section.
<b>I'm trying to</b>	Accurately manage inventory levels, minimize waste, and ensure that customers always find fresh vegetables on the shelves.
<b>But</b>	Manually tracking inventory is prone to errors, leading to stockouts, overstocking, and increased food waste.
<b>Because</b>	Stockouts result in lost sales opportunities, while overstocking leads to spoilage and financial losses.
<b>Which makes me feel</b>	Overwhelmed by the complexity of inventory management and concerned about minimizing losses.