

Project Initialization and Planning Phase

Date	06 July 2024
Team ID	SWTID1720158583
Project Name	Vitamin Vision: Unveiling The Spectrum Of Nutrient Detection
Maximum Marks	3 Marks

Define Problem Statements (Customer Problem Statement Template):

In the realm of modern nutrition and health, accurate and efficient nutrient detection in food items is paramount for ensuring balanced diets and addressing various dietary needs. Traditional methods of nutrient analysis are often time-consuming, costly, and require specialized equipment and expertise, limiting their accessibility and practicality for everyday use. This gap poses significant challenges for individuals seeking to maintain optimal health, as well as for health professionals, dietitians, and food manufacturers aiming to provide precise nutritional information.

Vitamin Vision: Unveiling The Spectrum Of Nutrient Detection seeks to address this critical issue by leveraging advanced deep learning techniques to develop a robust, scalable, and user-friendly system capable of accurately detecting and quantifying the nutrient content of various food items. By utilizing the VGG19 model and other state-of-the-art deep learning architectures, this project aims to create a comprehensive solution that can analyze food images and provide detailed nutrient profiles in real time.

I am	I'm trying to	But	Because	Which makes me feel
A CONSUMER	IDENTIFY THE VITAMINS PRESENT IN THE FOOD	I HAVE NO IDEA ABOUT THE VITAMINS PRESENT IN THEM	I AM NOT THAT AWARE OF THEM	WORRY BECAUSE I DONT KNOW WHAT I AM CONSUMING !!

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
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PS-1	A male consumer	Trying to know the vitamin type he is consuming in the food he takes	Doesn't know how to detect	Not that aware of them	Worry about the food intake.
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