## **Data Collection and Preprocessing Phase**

Date	21-06-2025
Team ID	SWTID1749893823
Project Title	AI-Powered Nutrition Analyzer For Fitness
	Enthusiasts
Maximum Marks	2 Marks

## **Data Collection Plan & Raw Data Sources Identification Template**

Elevate your data strategy with the Data Collection plan and the Raw Data Sources report, ensuring meticulous data curation and integrity for informed decision-making endeavor.

## **Data Collection Plan Template**

Section	Description			
Project Overview	The AI-powered Nutrition Analyzer helps			
	fitness enthusiasts track nutritional intake			
	accurately by identifying food items from			
	images using transfer learning. It predicts			
	nutritional content using a food database			
	and supports real-time image-based meal			
	logging. This enables personalized meal			
	planning and calorie tracking to meet fitness			
	goals.			
Data Collection Plan	From Skill Wallet Guided project			
Raw Data Sources Identified	The raw data sources for this project is			
	created from the data given in the guided			
	<pre>project in Skill Wallet (nutrition_data.csv)</pre>			

## **Raw Data Sources Template**

Source	Description	Location/URL	Format	Size	Acce
Name					SS
					Permi
					ssion
					S
TEST_S	Contains labeled	https://drive.google.com/dr	ZIP file	4.23G	With
ET	images similar to the	ive/folders/1TpJpaKzYjyX		В	link
	training set but unseen	IQpsEo9yDfPLrhJ4y45gr?			
	during training.	usp=sharing			
	Used to evaluate the				
	model's accuracy and				

	generalization on new data.				
TRAIN_ SET	Contains labeled images of fruits (apples, banana, etc.) organized into folders, used to train the AI model. Helps the model learn to classify different fruit types through supervised learning.	https://drive.google.com/fi le/d/1aR6AwH5KtwMchyf G3PK8cth5dIPMkdu7/vie w?usp=sharing	ZIP file	4.23G B	With link
nutrition _data	This file contains nutritional information (like calories, protein, fat, carbs, etc.) for each fruit category. After classifying a fruit image, the model uses this data to display accurate nutritional values to the user.	https://drive.google.com/fi le/d/1v55iQNdpPshZ- _wUA5jbtKnCvnhbBwb1/ view?usp=drivesdk	CSV	160 Bytes	Privat e to the sessio n