

Data Collection and Preprocessing Phase

Date	15 October 2024
Team ID	739652
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 in every analysis and decision-making endeavor.

Data Collection Plan Template

Section	Description
Project Overview	The objective of this project is to develop an AI-powered nutrition analyzer that helps fitness enthusiasts optimize their diets based on individual goals, preferences, and nutritional needs. The focus is on creating personalized meal plans, tracking nutritional intake, and providing real-time dietary insights.
Data Collection Plan	Data will be collected from various sources, including user input from fitness apps, dietary tracking platforms, nutritional databases, and food labeling APIs. The aim is to ensure comprehensive and diverse data encompassing meal plans, exercise logs, and ingredient information

Raw Data Sources Identified	For building the AI-powered nutrition analyzer, the primary data sources include user-generated food logs, recipes, and nutritional supplements from fitness-focused platforms like MyFitnessPal, Fitbit, and HealthifyMe. To enrich the dataset, publicly available nutritional databases (e.g., USDA Food Composition Database) and community-sourced meal plans will be integrated.
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Raw Data Sources Template

Source Name	Description	Location/URL	Format	Size	Access Permissions
Nutritional Data	Data on macronutrients, micronutrients, and dietary preferences	Kaggle Dataset	CSV	2 GB	Internal Access
Ingredient Database	Comprehensive list of food ingredients and their nutritional values.	Repid API	JSON	3 GB	Private (Restricted)
User Activity Logs	User-generated logs of meal plans and activity data	Internal Serve	CSV	800 MB	Private

Fitness Tracking Data	User fitness and exercise data including calories burned and workouts.	rapidapi	CSV	100 MB	Private
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