Data Collection and Preprocessing Phase

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Team ID	SWTID1720188483
Project Title	Nutrition App Using Gemini Pro : Your Comprehensive Guide To Healthy Eating And WellBeing
Maximum Marks	6 Marks

Data Exploration and Preprocessing Report

We can't use traditional data exploration and preprocessing techniques often employed in data analysis workflows. This is because the code interacts with a Generative AI model, focusing on user interaction rather than analysing pre-existing datasets. It lacks the functionalities needed to explore and manipulate structured datasets. The user input is considered as data for this project.

Section :	**Description statistics:**
Analyzing Meal Preference Input	**Meal type, Intake type, Cuisine, Goal**

Analyzing General Query Input	Descriptive statistics:
	`def get_general_query_response(input_text, uploaded_image, use_image):`
	`  # ... (existing code to handle user input)`
	
	`  if use_image and uploaded_image:`
	`  # ... (existing code for image processing)`
	`  content = {`
	`  "parts": [input_text, img_bytes]  # Text and image elements`
	`  }`
	`  else:`
	`  content = {`
	`  "parts": [input_text]  # Text element only`
	`  }`
	
	`  # Check the number of elements in the parts list`
	`  num_elements = len(content["parts"])`
	`  print(f"Number of elements in content (General Query): {num_elements}"`
	
	`  # Generate content using the model`
	`  response = model.generate_content(content)`
	`  return response.text`

Outliers and Anomalies	-
Data Preprocessing Code Screenshots	
Instruction Model	Generative AI model, likely provided by Google AI through the google.generativeai library.
Libraries Used	google.generativeai: This library is the core component for interacting with Google's Generative AI model. It facilitates sending user input (processed or raw) to the model and receiving the generated response. **Streamlit:** This library is commonly used for creating web applications in Python. It allows you to structure the user interface elements (dropdowns, sliders, text input, image upload) that users interact with to provide input. **Image Processing Libraries:** Performs any image processing on uploaded images (e.g., resizing), libraries like OpenCV or Pillow (PIL Fork) could be used.
Different Models used	

	A	B	C	D	E
1	Model Type	Description	Focus		
2	Generative AI M	Pre-trained mod	Text generation, responding to prompts, translation		
3	User Interface M	Web framework	Defines user interface elements and interaction		
4					
5					