Data Collection and Preprocessing Phase

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| Date | 21 March 2024 |
| Team ID | SWTID1720437635 |
| Project Title | Nutrition App Using Gemini Pro: Your Comprehensive Guide to Healthy Eating And Well-Being. |
| Maximum Marks | 6 Marks |

**Data Exploration and Preprocessing Report**

Traditional preprocessing and data exploration methods that are frequently used in data analysis

workflows are not applicable to us. The reason for this is that instead of analyzing pre-existing

datasets, the code interacts with a Generative AI model, emphasizing user engagement. It is

devoid of the features required to work with and explore organized datasets. For this project,

user input is regarded as data.

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| **Section :** | **Description statistics:** |
| **Analyzing Meal Preference Input** | **Meal type, Intake type, Cuisine, Goal** |
| **Analyzing General Query Input** | Descriptive statistics: |

|  |  |
| --- | --- |
| Outliers and  Anomalies | - |
| **Data Preprocessing Code Screenshots** | |
| Instruction Model | Generative AI model, likely provided by Google AI through the google.generativeai library. |
| Libraries Used | **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.  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.  **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 |  |