Model Selection Report

Model Selection Report:

With features identified, the next step is to choose the appropriate models that will best utilize this data to deliver accurate and personalized recommendations. The Model Selection Report documents the evaluation of various machine learning algorithms and statistical models, such as regression models, classification algorithms, and recommendation systems. This report includes a comparison of model performance based on criteria like accuracy, precision, recall, and computational efficiency. It justifies the selection of specific models based on their suitability for handling the app's data and meeting its goals, such as providing personalized meal plans or predicting nutrient deficiencies.

Model Selection Criteria

The following criteria were used to evaluate potential models:

- **Accuracy**: The model's ability to make precise predictions based on the input data.

- **Scalability**: The model's capacity to handle increasing amounts of data and users.

- **Complexity**: The model's complexity in terms of computational requirements and ease of implementation.

- **Interpretability**: How well the model's predictions and recommendations can be understood and explained.

- **Integration**: The model's compatibility with the existing app infrastructure and data sources.