LITERATURE SURVEY

NUTRITION ASSISTANT APPLICATION

PAPER TITLE	AUTHOR	DESCRIPTION	ADVANTAGES	DISADVANTAGES
1.Use of artificial intelligence in precision nutrition and fitness.	De Moraes Lopes, Maria Helena Baena and Ferreira, Danton Diego and Ferreira, Ana Claudia Barbosa Honorio and da Silva, Giuliano Roberto and Caetano, Aletha Silva and Braz.	Among the available computational tools, artificial intelligence (AI) has gained more and more attention recently, since it is able to learn and model linear and nonlinear relationships between variables by constructing an input-output mapping such that hidden and extremely useful information for decision-making is revealed and interpreted.	A large amount of data is collected by these technologies	AI is not yet widely used in the areas of nutrition and fitness
2. Predicting calorific value for mixed food using image processing.	Kohila, R and Meenakumari, R.	The objective of this paper is to predict and to fix diet control for various diseases by measuring the calorific value to help the patients and nutritionists. The image captured through a mobile phone/tablet camera will provide information concerning the	It increases the security for the information provided by the user. It reduces cost.	They have a limited variations for the prediction of calories in the food. The application lack the support from the user.

		calorie rate of the food.		
3. Mobile cloud based system recognizing nutrition and freshness of food image	Kumbhar, Diptee and Patil, Sarita	Mobile cloud computing (MCC) has been introduced to be a potential paradigm for mobile health services to overcome the interoperability issues over distinctive information formats. In this,we propose a mobile cloud-based food calorie measurement framework.	They have a multiple platform support for the end users. It is cost-efficient .	They have a connectivity and performance issues.
4. Enhancing Cloud and healthy Food Nutrition Information Systems Practice.	Paul, PK and Aithal, PS and Bhuimali, A.	Among the common mass food information systems are not yet popularized as a domain and thus there are huge potentialities to work on this.	Regarding manpower development there are a lot of things are pending and possible to work with. Hence cloud will do an attention on skill and manpower development for sophisticated development of food information systems.	

5. An image analysis system for dietary assessment and evaluation	Fengqing , Marc Bosch, Carol J. Boushey	Measuring accurate dietary intake is considered to be an open research problem in the nutrition and health fields. This approach includes the use of image analysis tools for identification and quantification of food that is consumed at a meal. The mobile device provides a unique vehicle for collecting dietary information that reduces the burden on respondents that are obtained using more classical approaches for dietary assessment. This approach uses image analysis that includes the segmentation of food items, features used to identify foods, a method for automatic portion estimation, and our overall system architecture for collecting the food intake information.	Useful for replacing the traditional food record methods currently used.	Measuring accurate dietary intake is an open research problem in the nutrition and health fields.