

Literature Survey:

Survey 1:

Enhancing Cloud and healthy Food Nutrition Information Systems Practice-by Paul, PK and Aithal, PS and Bhuimali, A

Year-2017

Technique-Cloud computing and Mobile Computing

Findings:

Among the common mass food information systems are not yet popularized as a domain and thus there are huge potentialities to work on this.

Pros and Cons:

: 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.

Survey 2:

Mobile cloud based system recognizing nutrition and freshness of food image-by Kumbhar, Diptee and Patil, Sarita

Year-2017

Technology: Cloud Computing, Image Segmentation

Findings:

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.

Pros and cons:

Multiple Platform Support Cost-Efficient

Connectivity and Performance Issues

Survey 3:

Predicting calorific value for mixed food using image processing-by Kohila, R and Meenakumari, R

Year-2017

Technology: Cloud Computing, Image Segmentation

Findings: 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 calorie rate of the food.

Pros and cons:

Increased security Reduced cost

Limited control Lacks Support

Survey 4:

Use of artificial intelligence in precision nutrition and fitness-byde 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

Year-2020

Technology: Artificial Intelligence,

Nutritional surveillance

Findings :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 interprete.

Pros and cons:

A large amount of data is collected by these technologies

AI is not yet widely used in the areas of nutrition and fitness