

TITLE	AUTHOR AND YEAR	PROPOSED SOLUTION	PROS AND LIMITATIONS	PROBLEM PROPOSED
Nutrition and Frailty	Manal B, 2022	A nutrition calculator provides information on nutrients present in the food item.	Useful to keep track and maintain the calorie and nutrient intake and an accurate estimation of daily nutritional intake provides a useful solution for keeping healthy. The dataset is limited to a small category and lacks a realistic scenario.	To improve the accuracy of the pre-training model, it estimates the calories and nutrients present in that food and the proposed nutrients estimation method is effective.
Food image classification and nutrition detection	Kimaya Sawant, Rinal Lokhande, Aarati Survase, Srushti Pawar, Prajwali Korde, 2022	To classify the types of food and recipes being used, as well as automatically analyse calorie data.	Used to increase storing usage and reduce the amount of bytes. There is a deviation in calorific value between the observed and calculated values.	The classification task can be enhanced by reducing repeated values in the datasets and improves accuracy by learning more features.
Food Safety Authority of Ireland	George's Dock, 2022	To enforce food law and protect consumer health in relation to food marketed and produced in Ireland.	To determine the residual levels of these additives, in order for products to be placed on the market. It lacks user customization and is GPSS dependent.	Managing risks in the food chain and responding to any national or international food incidents.
Estimation of Food Nutrition	Ms.Dhanshri R.Navarekar, Ms. Pallavi S.Patil, Ms. Aishwarya A.Tippe, 2022	The objective of this project is to develop a nutrition calculator and provide information on nutrients present in the food item.	Processes of data can be computerized quickly, with the used algorithm available for each food and setting item and to get the outline of each food. The calorie measurement is done based on the food mass and nutrition tables. The system has limited cuisine varieties mixed food images have not been considered.	An existing system where the user needs to manually distribute the values. However, users will only need to click on the image of food and provide it as an input to the system.

Assistant System for Hospital Nutritionists	Chakkrit Snae Namahoot, Michael Bruckner, Sakesan Sivilai, 2021	Nutrition system for assisting the nutritionists with all information they need, including nutritional values of available foods and patient data.	Liquid food nutrients were predicted. Limited cuisine varieties and mixed food images have not been considered.	Faster processing power compared to the old by a factor.
Effectiveness of Integrated Technology for Supporting Healthy Food Consumption	Sook Yee Lim, Kai Wei Lee, Wenly Seow, Nurul Azmawati Mohamed, 2021	Aimed to examine the efficiency of interventions that use technology apps to improve healthy food purchasing and consumption in adults.	The approach has an efficient feature extraction mechanism. In a taste recommendation system, it is difficult to produce the exact output.	The results showed that technology integration-based intervention favoured healthy changes in household food purchases, and increased consumption of healthy food and healthy eating outcomes-albeit to different extents.
Effects and Challenges of using a Nutrition Assistance system	Hanna Hauptmann, Nadja Leipold, Mira Madenach, 2021	Our system offers automated personalized visual feedback and recommendations based on individual dietary behaviour.	It is easy to change the interface of the application. The effect analysis of the underestimation in daily tracking is propagating errors to the user's feedback.	General knowledge acquired on the design of personalized mobile nutrition recommendations by identifying important factors, such as the user's acceptance of the recommender's taste, health, and personalization.
Study on nutritional components detection in food	Xiuying Li, 2020	Paid attention to solving the major problems in the field of food safety at present.	The approach has an efficient feature extraction mechanism. The psychological monitoring mechanism is not incorporated.	Several suggestions are put forward in order to study an accurate, comprehensive, and efficient method for the detection of food nutrition components.

Nutrition Recommender System	Thomas Theodoridis, Vasilis Solachidis, Kosmas Dimitropoulos, Lazaros Gymnopoulos, 2019	Provides a description of the components that are consumed by the user.	Concerned with methods that analyse human eating behaviour and more specifically with chewing rate, and mastication count.	Different approaches have been used in the literature regarding eating behaviour analysis.
A Survey on Nutrition Monitoring and Dietary Management System	P.Kamakshi Priyaa, Dr.L.Arockiam, 2019	A varied number of nutrition monitoring systems for the estimation and prediction of calories have been developed using various machine learning techniques and also with advanced deep learning based techniques.	Explored the likelihood of using artificial intelligence in recognizing the possible correlates of malnutrition. The nutrients were estimated only through percentages.	A comparative view of the previous works of researchers in the recent times has been provided.