

S.NO.	Journal Paper Title	Author's Name & Year	Source	Finding
1.	Enhancing cloud and Big data systems for healthy food and information systems practice: A conceptual study	Sreeramana Aithal, P.K. Paul , A.Bhuimal November 2017	International Journal of Scientific Research in Biological Sciences	Cloud computing may be applicable in the field of Food and Nutrition. Moreover, the paper also talks about cloud computing applications in different and diverse areas of Food Science, Nutrition and Dietetics. Further, the paper discusses some of the contemporary and future challenges to build Cloud Computing based Food Information Systems.

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2.	The Development and Implementation of a Software Tool and its Effect on the Quality of Provided Clinical Nutritional Therapy in Hospitalized Patients	Maria Skouroliakou, PhD, Christina Kakavelaki, RD, Konstantinos Diamantopoulos, MSc, Maria Stathopoulou, MSc, Ekaterini Vourvouhaki, PhD, Kyriakos Souliotis, PhD	<i>Journal of the American Medical Informatics Association</i>	“DIET” has the ability to calculate the nutritional requirements and to produce daily menus of patients automatically. Also, it serves as an electronic medical and dietetic record and it can produce daily reports regarding portions, quantities and cost of meals. “DIET” implementation resulted in error decrease and thus in improvement of menu planning, accuracy and recovery of data and decreased the time spent on menu planning.

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3.	Smart Log system that performs automated nutrition monitoring and meal prediction	Prabha Sundaravadivel,Kav ya Kesavan,Saraju P. Mohanty,Lokeshwar Kesavan	Research Gate	Malnutrition is a condition where the body is deprived of important nutrients required to maintain healthy tissues and organ function. In the modern world, where most of the infants are being sent to daycare, an automated food monitoring system helps in keeping track of their food intake. In this paper an automated food monitoring system with predictions to help a balanced meal is proposed. This sensor system consists of a piezo-based sensor board which can help in analyzing the weight of each meal and a smart phone camera to obtain nutrition facts of the ingredients.

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4.	Predicting calorific value for mixed food using image processing	R. Kohila,R. Meenakumari	Research Gate	<p>The image of the food is transmitted through a mobile device and it initially undergoes segmentation with Fuzzy C-means Clustering Segmentation which fixes the cluster centre based on the group data unlike the K-means Clustering which can be erroneous if the cluster centre is not defined properly by the user. The mathematical morphology is utilized as a tool for extracting the image components and the region shape description such as erosion, dilation, opening and closing. Feature extraction is performed to retrieve interesting parts of the image and then calorie measurement is done.</p>

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5.	Investigation of Nutritional Status of Children based on Machine Learning Techniques using Indian Demographic and Health Survey Data	Sangita Khare , S Kavyashree , Deepa Gupta, Amalendu Jyotishi	ScienceDirect	Malnutrition is the leading causes of infant mortality among the developing countries including India. This study designs a prediction model for malnutrition based on machine learning approach, using the available features in the Indian Demographic and Health Survey (IDHS) dataset and comparing that with the literature identified features. Our findings suggest that machine learning approach identifies some important features not identified in extant literature. Subsequently, logistic regression was carried out to identify the probabilities of these features in explaining malnutrition. The paper contributes in exploring the possibilities of using artificial intelligence in identifying probable correlates of malnutrition.

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6.	Food calorie measurement using deep learning neural network	Parisa Pouladzadeh, Pallavi Kuhad, Sri Vijay Bharat Peddi, Abdulsalam Yassine	Research Gate	In this paper, we propose an assistive calorie measurement system to help patients and doctors succeed in their fight against diet-related health conditions. Our proposed system runs on smartphones, which allow the user to take a picture of the food and measure the amount of calorie intake automatically. In order to identify the food accurately in the system, we use deep convolutional neural networks to classify 10000 high-resolution food images for system training. Our results show that the accuracy of our method for food recognition of single food portions is 99%. The analysis and implementation of the proposed system are also described in this paper.