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| **Title** | **Author Name** | **Methodology** | **Limitation** | **Accuracy** | **Published Year** | **Link to research Paper** |
| Smart Diet Diary: Real-Time Mobile Application for Food Recognition | Muhammad Nadeem, Henry Shen, Lincoln Choy, and Julien Moussa H. Barakat | It uses Multi label classifier for food classifications in an image with 16000 images for 14 categories using Faster RCNN Algorithm | It doesn’t consider the position of food and hard to detect overlapping food items in images | **Faster RCNN:** 80.1% | 2023 | [ASI | Free Full-Text | Smart Diet Diary: Real-Time Mobile Application for Food Recognition (mdpi.com)](https://www.mdpi.com/2571-5577/6/2/53) |
| Diet recommendation system using machine learning | Reema Golagana, V. Sravani, T. Mohan Reddy | The proposed diet recommendation system suggests food items based on the user's age, weight, height, BMI, dietary preferences, and health conditions using machine learning and deep learning algorithms. | It does not consider user’s personal preferences such as Allergen/ Disease parameters to recommend a food item. | **Random Forest:** 62.93%  **LSTM:** 63.42% | 2023 | [(PDF) DIET RECOMMENDATION SYSTEM USING MACHINE LEARNING](https://www.researchgate.net/publication/370066923_DIET_RECOMMENDATION_SYSTEM_USING_MACHINE_LEARNINGin_4_kavithachekuriraghuenggcollegein) |
| Deep Learning for Food Image Recognition and Nutrition Analysis Towards Chronic Diseases Monitoring. | Merieme Mansouri, Samia Benabdellah Chaouni, Said Jai Andaloussi, Ouaïl Ouchetto | It only considers Food Image that is segmented into parts and apply classification and regression techniques to calculate the calorie count. | It does not consider Individual’s BMI and other health problems while calculating Calorie Count. | **Inception v3, v4, ResNet:** 92% | 2023 | [(PDF) Deep Learning for Food Image Recognition and Nutrition Analysis Towards Chronic Diseases Monitoring: A Systematic Review (researchgate.net)](https://www.researchgate.net/publication/372133738_Deep_Learning_for_Food_Image_Recognition_and_Nutrition_Analysis_Towards_Chronic_Diseases_Monitoring_A_Systematic_Review) |
| Multilabel Text Classification with Label-Dependent Representation | Rodrigo Alfaro,  Héctor Allende-Cid | The methodology involves evaluating a weighting function for words in texts to modify text representation during multilabel classification, combining problem transformation and model adaptation, and assessing performance using Hamming Loss, Accuracy, and macro-𝐹1 across 10 referential textual datasets. | The proposed weighting function approach lacks the advanced contextual understanding and semantic representation capabilities of BERT, limiting its ability to capture intricate relationships within long text inputs. | **ANN with different categories of data:** 50-60% | 2023 | [Applied Sciences | Free Full-Text | Multilabel Text Classification with Label-Dependent Representation (mdpi.com)](https://www.mdpi.com/2076-3417/13/6/3594) |