LITERATURE SURVEY

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| SNO | TITLE OF THE PAPER | NAME OF  THE JOURNAL | AUTHOR | YEAR  OF  PUBLISHING | ACHIEVEMENTS | DRAWBACKS |
| 1. | Precision Nutrient Management Using Artificial Intelligence Based on Digital Data Collection Framework | IMDPI | Hsiu-An Lee , Tzu-Ting Huang , Lo-Hsien Yen | 2022 | The AI Precision Nutrient Analysis Model was used to analyze the ingredients of the dishes and calculate nutrient intake by automatically analyzing the dishes, and portion sizes were analyzed using a digital data semantic analysis model. | In terms of data access, as there is not yet a complete set of publicly available data on food nutrient ingredients; more complete data and references on micro-nutrients should be available in the future. |
| 2. | Android Based Monitoring System With Diet And Calorie Tracker | IJERT | V. Ramkumar, S.Priyanga Devi , K. Laxmi Priya, M. Kavya Dharshani | 2022 | The Calorie tracker app is successfully designed and developed to fulfilling the necessary requirements, of user members as well as admin as identified in the requirements analysis phase, such as the system is very much user friendly and easy to use. Diet, Fitness and profitability are carried out. | The recommender system deals with a large volume of information present by filtering the most important information based on the data provided by a user and other factors that take care of the users preference and interest. It finds out the match between user and item and impute the similarities between users and items for commendation based on their physical aspects (age, gender, height, weight, and body fat percentage), preference (weight loss or weight gain). |
| 3 | Website on Diet Recommendation Using Machine Learning | IRJET | Shubham Singh Kardam, Pinky Yadav, Raj Thakkar, Prof Anand Ingle | 2021 | The clustering of various nutrients depending upon which are essential for the weight loss, weight gain and healthy is performed. After the clustering is performed, using Random Forest classifier, the nearest food items are predicted which best suited for the appropriate diet. | The proposed system recommends the substituted foods according to nutrition and food parameters. However, FRS does not adequately address the disease level issue because the level of diabetes may vary hourly in different situations of the patient. |
| 4 | Realizing an Efficient IoMT-Assisted Patient Diet Recommendation System Through Machine Learning Model | Research gate | [Celestine Iwendi](https://www.researchgate.net/profile/Celestine-Iwendi), [Suleman Khan](https://www.researchgate.net/scientific-contributions/Suleman-Khan-2168394986),  [Joseph Henry Anajemba](https://www.researchgate.net/profile/Joseph-Anajemba),  [Ali Kashif Bashir](https://www.researchgate.net/profile/Ali-Bashir-4) | 2020 | this paper proposes a deep learning based solution for health base medical dataset that automatically detects which food should be given to which patient base on the disease and other features like age, gender, weight, calories, protein, fat, sodium, fiber, cholesterol. | Here the LSTM Algorithm does provide the full result it shows only the accuracy of 98%. |
| 5 | A Survey on AI Nutrition Recommender Systems | Research gate | Thomas Theodoridis,Petreos Daras,Vassilios Solachidis. | 2019 | The proposed method in this project uses CNN Algorithm to identify the tasks of food detectin and food recognition. | This project can has been successfully completed, it can use any other algorithms to improve the accuracy and to identify the recommendation of food that affect the health. |
| 6 | Vitamin Deficiency and Food Recommendation System Using Machine Learning | iJRASET | Palaniraj A, Durga Prasad, Pradeep .P | 2021 | Uses decision tree until the appropriate classification is reached in order to select the proper food item based on food availability, user category (Fat, healthy, lean, etc.), likeness factor, user fitness goals, overall content of Nutrients in that food, decision rules and constraints on it are defined in order to design a healthy diet plan for each individual. | If the likeness factor for a food item displayed is medium, the decision on whether that food item should be included in the diet plan or not will be made by taking the client's fitness goals into account. |
| 7 | An overview of recommender systems in the healthy food domain | Springer | 2017 | Muslum Atas, Alexander Felfering,Martin Stettinger. | This project uses hybrid approaches provides Collaborative Filtering recommendation, Content-based recommendation, Constraint-based recommendation. | Some challenges regarding user information, recommendation algorithms, changing eating behaviors, explanations provision, and group decision making are not implemented in this project. |