## Al-powered Nutrition Analyzer for Fitness Enthusiasts LITERATURE SURVEY

S.NO	TITLE	FOUNDERS/ PUBLISHERS	OBJECTIVE	INFERENCE
1	Nutrient Management Using Artificial Intelligence Based on Digital Data Collection Framework.	Hsiu-An Lee , Tzu-Ting Huang, Lo-Hsien Yen, Pin-Hua Wu, Kuan- Wen Chen, Hsin-Hua Kung, Chen-Yi Liu, and Chien-Yeh Hsu ( 20 April 2022)	An artificial intelligence model for precision nutritional analysis allows the user to enter the name and serving size of a dish to assess a total of 24 nutrients.  Al model has very little error and can significantly improve the efficiency of the analysis.	This study proposed an Intelligence Precision Nutrient Analysis Model based on a digital data collection framework, where the nutrient intake was analysed by entering dietary recall data.  The AI model can be used as a reference for nutrition surveys and personal nutrition analysis.
2	A Mathematical Al- Based Diet Analysis and Transformation Model	1.L.K. Gautam 2.S.A. Ladhake (2018)	Educational software which should perform the routine task of analysing, optimizing, and transforming diet by considering their energy requirements and medical problems.  The different nutritional values present in a diet are generally affected by imprecision, which can be represented and analysed by fuzzy logic.	mathematical model for diet optimization and transformation solves the common nutritional problems of public health problems in India using fuzzy arithmetic.  The proposed transformation algorithm balances the diet by developing the state space, considering the needs of user and applying minimum possible changes.
3	Swasthya : The Virtual Dietician	1.Diya Garg 2.Chakshita Gupta 3.Mishika Rawat (2020-21)	The system creates a meal plan in accordance with a person's lifestyle and health requirements.	This software is going to boost up the confidence of the user and make them more physically and mentally fit.

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4	Al Based System to Provide Diet Plan for Older Hospitalized Patients.	1.Hussain Quraishi 2. Mohammed Zaid 3. S. Dinesh Choudhary 4.Mohammed Imran (2022)	Al nutritionist is indeed a machine intellect health professional that supplies its users with an appropriate eating strategy depending on some evaluation parameters.  It functions as a nutrition advisor, much like an actual health professional.	The work of administrator is to monitor the client data and discard invalid database. Various nutritionists can visit the application and access data via dietician login page.  Activity and workout information to spend the calories according to the consumption is included.
5	HealthifyMe	1.Tushar Vashisht 2.Sachin Shenoy 3.Mathew Cherian (1 Jan 2012)	Providing nutritional and fitness advice from nutritionists and fitness coaches to users with premium subscription.  It has developed a calorie counter for regional foods and an exercise tracker for logging in physical activities.	Fitness ecosystem that helps to achieve the health goals faster and more consistently.  Detailed insights to keep you on track and help to improve health regimen, provided with extensive diet and workout plans.