Literature Survey

AI-powered Nutrition Analyzer for Fitness Enthusiasts

S.No	Title	Author	Year	Journal	Technology	Drawbacks
1.	Food Calorie Estimation using Convolutional Neural Network	V Balaji Kasyap , N. Jayapandian	2021	International Conference on Signal Processing and Communication (ICPSC)	Convolutional Neural Network (CNN)	Random Forest model with the mean mistake of 13.12 and informational collection is moderately little
2.	Image Based Food Calories Estimation Using Various Models of Machine Learning	Haoyu Hu; Zihao Zhang; Yulin Song	2020	International Conference on Mechanical, Control and Computer Engineering (ICMCCE)	SSD (Single Shot MultiBox Detector).	For object detection algorithms, training set size is actually not large
3.	Personalised Food Classifier and Nutrition Interpreter Multimedia Tool Using Deep Learning	M. Sundarramurthi, Nihar. M, Anandi Giridharan.	2020	IEEE REGION 10 CONFERENCE (TENCON) Osaka, Japan	Convolutional Neural Networks (CNN)	Accuracy rate-low(96.6%) and limited dataset.
4.	An Artificial Intelligence-Based System for Nutrient Intake Assessment of Hospitalised Patients	Ya Lu, Thomai Stathopoulou, Maria F. Vasiloglou, Stergios Christodoulidis, Beat Blum, Vinzenz Meier, Zeno Stanga, Stavroula G.	2019	2019 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)	Artificial Intelligence (AI)	We demonstrated that the system estimates automatically the nutrient intake with a MSE of only 15%.

5.	Food Intake Calorie Prediction using Generalized Regression Neural Network	First Teddy Surya Gunawan, Mira Kartiwi , Noreha Abd Malik , Nanang Ismail.	2018	IEEE 5th International Conference on Smart Instrumentation, Measurement and Application (ICSIMA)	Generalized Regression Neural Network	Due to very large variation of the calorie needs to be predicted, GRNN has rather large prediction error