**Literature survey on**

**AI POWERED NUTRITION ANALYZER FOR FITNESS ENTHUSIASTS**

**Team Members**

Seelam Satwik

Shaik Afrid

Somisetty Hemanth Kumar

Shaik Avez

Chennai Institute of Technology

Chennai-600069

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| **Book/Journal** | **Author’s Name** | **Inference** |
| Artificial intelligence in gastrointestinal endo- scopy for inflammatory bowel disease | Gian Eugenio, [Alessandro Rimondi](https://pubmed.ncbi.nlm.nih.gov/?term=Rimondi+A&cauthor_id=34178115),  Marta Vernero,  Helmet Neumann,  Cristina Bezzio. | This article to Provide Info regarding the AI-assisted endoscopy that has been introduced into several research fields, including inflammatory bowel disease (IBD) endoscopy, with promising applications that have the potential to revolutionize clinical practice and gastrointestinal endoscopy. |
| An Artificial Intelligence Based System for Nutrient Intake Assessment of Hospitalized Patients | Ya Lu, Thomai Stathopoulou, Maria F. Vasiloglou, Stergios Christodoulidis, Beat Blum, Thomas Walser, Vinzenz Meier, Zeno Stanga, Stavroula G. Mougiakakou | This article is more beneficial for the hospitalized patients where the AI based model is accurately estimate nutrient intake, by simply processing RGB depth image pairs captured before and after a meal consumption |
| A New Deep Learningbased Food Recognition System for Dietary Assessment on An Edge Computing Service Infrastructure | Chang Liu, Yu Cao, Guanling Chen, Yunsheng Ma, Songqing Chen | The IOT based dietary assessment imposes several fundamental challenges on algorithm development and system design. They address this issue by developing a novel deep learningbased visual food recognition algorithms to achieve the best-inclass recognition accuracy |
| Artificial Intelligence in Nutrients Science Research: A Review , 2021 Jan 22. | Jaroslaw slak and Magdalen a suckhodolska | The aim of this article is to analyze the current use of AI in nutrients science research by using Artificial Neural Network which was dominant in the group of research on food  composition study and production of nutrients. |
| Artificial Intelligence Applications In Nutrition And Dietetics | İzzet Ülker and Feride Ayyıldız | The main ideology of this paper is many researches faced difficulties of evaluating the food preferences and dietary intake that is, remembering the frequency or amount of intake in assessment of dietary intake. To overcome this the apps facilitate the work of researchers and provide more reliable results than traditional methods. |