## Al-powered Nutrition Analyzer for Fitness Enthusiasts

**DOMAIN: Artificial Intelligence** 

**TEAM ID: PNT2022TMID12745** 

## **TEAM MEMBERS:**

19L108 - Chandran V V

19L130 - Sanjay A

19L136 - Soundaryaa R

20L421 - Vasanth R

Industry Mentor(s): Sowjanya, Sandeep

Faculty Mentor(s) : Thulasimani Lakshmanan

## **LITERATURE SURVEY**

S.No.	Paper Title	Author name	Journal Name and year	Description
1.	A New Deep Learning-based Food Recognition System for Dietary Assessment on An Edge Computing Service Infrastructure	Chang Liu, Yu Cao, Senior Member, IEEE, Yan Luo, Member, IEEE, Guanling Chen, Member, IEEE.	IEEE Xplore - 2017	In this paper, we aimed to develop a practical deep learning based food recognition system for dietary assessment within the edge computing service infrastructure. The key technique innovation in this paper includes: the new deep learning-based food image recognition algorithms and the proposed real-time food recognition system employing edge computing service paradigm. Our experimental results on two challenging data sets using our proposed approach have demonstrated that our system has achieved the three major objectives

2.	Artificial Intelligence in Nutrients Science Research: A Review	Jarosław Sak and Magdalena Suchodolska	Nutrients - 2021	During the analysis of the reviewed publications presenting the results of research on nutrients with the use of AI technology, it can be noticed a little later that it gained wider application in human health research than analogous applications in experimental research on food. This may have resulted from both some ethical concerns and psychological resistance, as well as from the imperfections of earlier AI algorithms, which seemed
				imperfections of earlier AI