## Ideation Phase Literature Survey

Date	5 October 2022		
Team ID	PNT2022TMID50512		
Project Name	AI Powered Nutrition Analyst for Fitness Enthusiasts.		

S.No	Title & Author	Year	Technique	Proposed System
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1	A New Deep	2020	Edge	Literature has indicated
	Learning-based		Computing	that accurate dietary
	Food			assessment is very
	Recognition			important for
	System for			assessing the effectiveness
	Dietary			of weight loss
	Assessment on			interventions. However,
	An Edge			most of the
	Computing			existing dietary
	Service			assessment methods rely
	Infrastructure –			on memory. With the
				help of pervasive mobile
	Chang Liu, Yu			devices and rich cloud
	Cao, Senior			services, it is now
	Member,			possible to develop new
	IEEE, Yan			computer-aided food
	Luo,			recognition system for
	Member, IEEE,			accurate dietary
	Guanling Chen,			assessment. However,
	Member, IEEE,			enabling this future
	Vinod			Internet of Things based
	Vokkarane,			dietary assessment
	Senior			imposes several
	Member,			fundamental challenges on
	IEEE,			algorithm development
	Yunsheng Ma,			and system design. In this
	Songqing			paper, we set to address
	Chen,			these issues from the
	Member,			following two aspects: (1)
	IEEE, Peng			to develop novel deep
	Hou			learning-based visual food
				recognition algorithms to
				achieve the best-in-class
				recognition accuracy; (2)
				to design a food
				recognition system
				employing edge
				computing based service
				computing
				companing

				paradigm to overcome some inherent problems of traditional mobile cloud computing paradigm, such as unacceptable system latency and low battery life of mobile devices.
2	Android Based Monitoring System With Diet And Calorie Tracker - V. Ramkumar, 2 S.Priyanga Devi , 3 K. Laxmi Priya, 4 M. Kavya Dharshani 1Assistant Professor Electronics and communicati on Engineering K.Ramakrishn an college of Technology Trichy, Tamil Nadu	2022	Naive bayes Classifier algorithm	Having a fit and healthy body is everyone's dream, but it has somehow not been everyone's cup of tea. Lack of motivation and guidance bars people from achieving their healthy goals. This project was designed to solve this every problem. This allows the users to keep track of their diet and exercise regime, take expert advice and connect to other fitness enthusiasts thus equipping them to maintain a healthy lifestyle. The system plans offer its customer and fitness enthusiasts many beauty tips options that can help them reach their goals. It serves as a calorie tracker, allowing users to lose weight and track their food and exercise regimens through their phones. There are four components.

3	2021	AI Approach	The advancement of artificial intelligence (AI) and the significant growth in the use of food consumption tracking and recommendation-related apps in the app stores have created a need for an
			evaluation system, as minimal information is available about the evidence-based quality and technological advancement of these apps. Electronic searches were conducted across three major app stores and the selected apps were evaluated by three independent raters.

## Reference:

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