Ideation Phase Literature Survey

Date	5 October 2022	
Team ID	PNT2022TMID26694	
Project Name	AI Powered Nutrition Analyst for	
	Fitness Enthusiasts.	

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

				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 communication Engineering K.Ramakrishnan 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
conducted across three major app stores and the
selected apps were
evaluated by three independent raters.

Reference:

https://ieeexplore.ieee.org/ielaam/4629386/8332642/7837725-aam.pdf

 $\underline{https://www.ijert.org/research/android-based-monitoring-system-with-diet-and-calorie-tracker-IJERTCONV10IS09028.pdf}$

https://www.researchgate.net/profile/Anik-Das-6/publication/362265371 Smartphone Apps for Tracking Food Consumption and Recommendations Evaluating Artificial Intelligence-based Functionalities Features and Quality of Current Apps/links/62e01569 3c0ea878875c889e/Smartphone-Apps-for-Tracking-Food-Consumption-and-Recommendations-Evaluating-Artificial-Intelligence-based-Functionalities-Features-and-Quality-of-Current-Apps.pdf