Ideation Phase Literature Survey

Date	20 October 2022		
Team ID	PNT2022TMID33113		
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 is
	Food Recognition			very important for assessing the
	System for			effectiveness of weight loss
	Dietary			interventions. However, most of
	Assessment on An			the existing dietary assessment
	Edge Computing			methods rely on memory. With
	Service			the help of pervasive mobile
	Infrastructure –			devices and rich cloud services, it
				is now possible to develop new
	Chang Liu, Yu			computer-aided food recognition
	Cao, Senior			system for accurate dietary
	Member, IEEE,			assessment. However, enabling
	Yan Luo,			this future Internet of Things
	Member, IEEE,			based dietary assessment imposes
	Guanling Chen,			several fundamental challenges
	Member, IEEE,			on algorithm development and
	Vinod Vokkarane,			system design. In this paper, we
	Senior Member,			set to address these issues from
	IEEE, Yunsheng			the following two aspects: (1) to
	Ma, Songqing			develop novel deep learning-
	Chen, Member,			based visual food recognition
	IEEE, Peng Hou			algorithms to achieve the best-in-
				class recognition accuracy; (2) to
				design a food recognition system
				employing edge computingbased
				service computing

2	Android Based Monitoring System With Diet And Calorie	2022	Naive bayes Classifier algorithm	paradigm to overcome some inherent problems of traditional mobile cloud computing paradigm, such as unacceptable system latency and low battery life of mobile devices. Having a fit and healthy body is everyone's dream, but it has somehow not been everyone's our of tea. I sale
	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		argonumi	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	The advancement of
		Approach	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:

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

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

https://www.researchgate.net/profile/Anik-Das-6/publication/362265371_Smartphone_Apps_for_Tracking_Food_Consumption_and_Recommendations_Evaluating_Artificial_Intelligencebased_Functionalities_Features_and_Quality_of_Current_Apps/links/62e01569_3c0ea878875c889e/Smartphone-Apps-for-Tracking-Food-Consumption-andRecommendations-Evaluating-Artificial-Intelligence-based-FunctionalitiesFeatures-and-Quality-of-Current-Apps.pdf