Ideation Phase Literature Survey

Date	04/11/2022
Team ID	PNT2022TMID19703
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 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
	Vinod Vokkarane,			Thingsbased dietary
	Senior Member,			assessment 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
				computingbased service
				computing

2	Android Based	2022	Naive	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
	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		bayes Classifier algorithm	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	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