Ideation Phase
Literature Survey

Date	19 September 2022
Team ID	PNT2022TMID28535
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts
Maximum Marks	4 Marks

INTRODUCTION

The primary goal of the project is to develop a model that will be used to categorise fruits according to their various attributes, such as colour, shape, and texture. Here, users can take pictures of various fruits, which are then sent to a trained model for analysis. The algorithm examines the image and determines the nutrition content of fruits like (Sugar, Fibre, Protein, Calories, etc.)

LITERATURE SURVEY

S.NO	AUTHOR	TITLE	OBJECTIVE
1.	Marieke van Erp et al. (2021)	Using Natural Language Processing and Artificial Intelligence to Explore the Nutrition and Sustainability of Recipes and Food	This paper argues that in order to address food and recipe research in order to address sustainability and health issues, interdisciplinary approaches should be used. These strategies should integrate historical food research, food science, nutrition, and sustainability knowledge with NLP and other AI techniques.
2.	Feras Albardi et al (2021)	A Comprehensive Study on Torchvision Pre-trained Models for Fine-grained Inter- species Classification	The Torchvision package of the PyTorch library contains a number of pre-trained models that are the subject of this study. And look into how well they can categorise photos with finer details.

3.	Anahtar kelimeler – beslenme ve diyetetik;yapayzeka	Nutrition is medical analysis	The medical field of diagnosis, risk assessment, and medical diagnosis is causing artificial intelligence to grow quickly. When determining which approach is the best, the research may face numerous difficulties. Also important to take into account are participant burden, motivation, and willingness to accurately report diet, as well as participant literacy and memory. Before beginning, it is important to consider the time required to enter and analyse diet data as well as the resources that will be available to conduct an accurate analysis of dietary recalls. There are some dietary assessment limitations with each method.
4.	Rozga m, Latulippeme	Dietary Assignment nutrition	Researchers face significant difficulties when determining dietary intake using various methods, such as the 3 day record 24 hour recalled food frequency requirement. The technology of the development functions, such as nitrogenous, nutrients, metabolisms, and also food mics, is specified as the unique individual information found in science to promote dietary changes that favourably affect health outcomes. invites a fresh look at molecular-level data to enhance some unique nutritional inventions

5.	Jaroslawsakandm agdalena suchodolska.	AI inresearch in production of nutrients.	Research on the organisation of the production of several nutrients has been linked to AI modelling. According to Huang et al., an artificial natural network is demonstrated by the creation of the retinal derivative acting laureate. It leads to the chair of the humanities and social medicine department at Lubin University in Lubin, Poland, 20-093. Users should correspond with the address of Lubin Medical University in Poland as it is the type of bio molecular resources research infrastructure.

REFERENCES:

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