SAGE University, Indore

Institute of Advance Computing

Project Title: "Ingredients analysis of packaged food items using AI for personalized health recommendation."

Group Members:

1. Bhavya Dubey (21ADV3ARI0005)
2. Aman Mishra(21ADV3ARI0004)
3. Swamya Ranjan Das (21ADV3ARI1013)
4. Rituraj Mandloi (21ADV3ARI0033)

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Project Guide: Prof. Suranjit Kosta

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Project Title

Ingredients analysis of packaged food items using AI for personalized health recommendation.

Problem Statement

People with specific health conditions struggle to assess the impact of packaged food ingredients on their well-being. Existing solutions provide generic nutritional data but lack AI-driven personalization. This project aims to develop an AI-powered application that allows users to scan ingredient lists and input their health profiles. The app analyzes the ingredients' effects based on the user's health conditions and provides personalized recommendations, enabling informed and healthier food choices.

Project Outcome

The outcome of this project is an AI-powered mobile application.

Our team has successfully completed the development, deployment, and testing of our project, 'Ingredients Analysis of Packaged Food Items using Gen AI for Personalized Health Recommendations.' The application is now fully functional and accessible to users. Currently, we are working on writing a research paper based on this project to document our methodology, findings, and potential impact."

Features of Application

The key deliverables and impact include:

1.Ingredient Analysis: The app accurately extracts and analyzes the ingredients of packaged food items using image processing and AI.

2.Personalized Health Insights: Based on the user's health report and conditions, the AI model provides personalized recommendations on whether a particular food is suitable or potentially harmful.

3.Enhanced Awareness & Healthier Choices: Empowers users with knowledge about the effects of ingredients on their specific health conditions, leading to better dietary decisions.

Potential Expansion

The system can be further expanded to include dietary recommendations, alternative healthier options.

Thank You!