Team Members:
AJAY A -917719IT0004
HARISH J -917719IT033
MADHAVAN R-917719IT052
RAVIKUMAR K -917719IT075

Project Design Phase-1
Proposed Solution

Team ID	PNT2022TMID21496
Project Name	AI powered nutrition analyzer for fitness enthusiasts

SNo.	Parameter		Description
1.	solved)	Problem Statement (Problem to be	Food is essential for human life and has been the concern of many healthcare conventions. Nowadays new dietary assessment and nutrition analysis tools enable more opportunities to help people understand their daily eating habits, exploring nutrition patterns and maintain a healthy diet. Nutritional analysis is the process of determining the nutritional content of food. It is a vital part of analytical chemistry that provides information about the chemical composition, processing, quality control and contamination of food.

The main aim of the project is to building a model which is used for classifying the fruit depends on the |

| | | different characteristics like colour, shape, texture etc. Here the user can |

| | | capture the images of different fruits and then the image will be sent the trained model. The model analyses the image and detect the nutrition based on the fruits like (Sugar, Fibre, Protein, Calories, etc.). |

2.	Idea/Solution description	using AI and image classification technology to identify the food correctly and accurately and also calculated the amount the calories just from the picture. Their proprietary API, called Food AI API has been trained to identify cuisines from across the world, thus making it the most culturally diverse food identification system in the world. Further, by connecting the API with diverse data sets, the food which is automatically recognised by the platform is paired with detailed nutrition information.
3.	Novelty/Uniqueness	Using AI to identify the amount of food that are present and approximating the calorie values that are to be consumed by the user.
4.	Social Impact/Customer satisfaction	With this AI powered technology the fitness enthusiast can note the calories and fat consumed by them. They are calculative people with precise calculation for body development what if there is an application that can monitor them, they will surely accept it.
5.	Business Model (Revenue Model)	Since it does all the work that the fitness enthusiast does there will be a huge rise in the demand of this project and thus there will be huge rise in companies revenue system.

6.	Scalability of the Solution	It is an easily scalable since there are no foods that are being scanned continuously, new foods are being added regularly and their values too. The rise in using this app increases the knowledge of the user too.

SNo.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Neutrino: The platform provides nutrition-based data services, analytics, and technologies to its consumers and wants to turn itself into a leading source of nutrition-related insight platform. To enable individualised compilation of data, the platform uses NLP and mathematical models from the optimation theory and predictive analysis. Further, using API and SDK integrations, it enables its partners can purchase data regarding food, nutrition so as to help improve their product offering and services.
2.	Idea/Solution description	Nutrino leverages state of the art data science, natural language processing and mathematical models from the worlds of optimization theory and predictive analytics.

3.	Novelty/Uniqueness	Nutrino is an innovator in the field of artificial intelligence, data analytics, MLOps and cloud computing. As part of the Medtronic family, we are focused on exciting innovation in medical technology research

4.	Social Impact/Customer satisfaction	Nutrino has established integrations with apps, wearables, devices, and datasets. Through our Hub, partners get access to over 100 different inputs in a standardized and easy to use format.
5.	Business Model (Revenue Model)	Nutrino's in-house developed tools for data collection and analysis are available for licensing. Popular with data service providers, Nutrino's capabilities offer greater depth and reliability.

SNo.	Parameter	Description
6.	Scalability of the Solution	• Limited Resources better results. • Boost productivity in results. • Much more user friendly and can further be improved in future.

SNo.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Peoples from all over the world who were busy at their work who needs a way to maintain their health,Analysis of level of stay in hospitals for various treatments, so that the users can be benefited in their busy schedule
2.	Idea/Solution description	Health sector has improved in many factors.Nowadays people can maintain their health at their place of stay. Like smartphones, smart watches and many more gadgets came to make our lives easier. We can monitor our blood pressure, no of distance walked and etc
3.	Novelty/Uniqueness	Health gadgets have come in a large amount and it is handy to the users. From their place of stay they can monitor their health like breathing capacity, heart beat rate and many more

4.	Social Impact/Customer satisfaction	It has impacted from rich to poor, from educated to common peoples all got to know the usage of gadgets and it is really helpful to the peoples who are far away from the hospital. Now they can easily monitor their heart beat rate, blood pressure, etc.

5.	Business Model (Revenue Model)	In the modern world. the usage of healthcare gadgets has increased and peoples are more likely to buy these gadgets and so it has increased the revenue model in the market

6.	Scalability of the Solution	Scalability is up to the usage of peoples by getting their commands about the gadgets. We can scale the gadgets to their usage in terms of speedness, accuracy in predicting the results and even more.