

**Project Design Phase-I**  
**Proposed Solution**

<b>PROJECT NAME</b>	AI POWERED NUTRITION ANALYZER FOR FITNESS ENTHUSIASTS
<b>DEPARTMENT</b>	COMPUTER SCIENCE AND ENGINEERING
<b>TEAM ID</b>	PNT2022TMID22365
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**Proposed Solution:**

<b>S. No.</b>	<b>Parameter</b>	<b>Description</b>
<b>1.</b>	<b>PROPOSED SOLUTION</b>	The user needs information about the nutritional values of different types of food. Here the user can capture the images of different fruits and then the image will be analysed with the trained model. The model analyses the image and lists out the nutrients present in the fruit like sugar, vitamins, minerals, protein etc.
<b>2.</b>	<b>FEASIBILITY OF IDEA</b>	The idea of this application is that the user can capture the images of different fruits and vegetables, and then the image will be sent to the trained model. It detects the nutrition on fruits. The above idea is achieved by using the Convolution Neural Network (CNN).
<b>3.</b>	<b>NOVELTY</b>	Easier prediction of calorie utilization, preparing healthy diet and improve customer satisfaction by providing information about the food items. It provides for a personalized dietary requirement for individuals who have limited preferences while choosing food.
<b>4.</b>	<b>SOCIAL IMPACT</b>	Acquire knowledge & information about nutrition which is present in each fruit for their fitness.
<b>5.</b>	<b>BUSINESS MODEL</b>	<ul style="list-style-type: none"><li>• Key Partners are supporting organization and fitness enthusiasts.</li><li>• Key Activities are done as prediction, suggestion for calorie consumption and healthy life suggestion.</li><li>• Showing advertisements and promoting certain brands by collaborating with Google AdSense.</li><li>• Channels are email, mobile, helpline and health care.</li><li>• Promoting in Social media.</li></ul>
<b>6.</b>	<b>SCALABILITY</b>	Every Customer must get Healthy Life and Proper Diet Maintenance based on the Healthy Measure and Calorie prediction. Also suggest the feedback to maximize the Application usage. Every user can easily access our product from their smartphones for free and easy to understand interface.