



V.S.B. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University)

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ELECTRONICS AND COMMUNICATION ENGINEERING

NALAYA THIRAN

AI – Powered Nutrition Analyzer for Fitness Enthusiasts

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PROBLEM STATEMENT:

We are living in the busy world. We can't even find time to maintain our fitness level also the intaking of un-nutrition food to made dangerous to their own lives. Try to find and create a solution to make people to aware of their food items and know about it...

SOLUTIONS:

HealthifyMe is a leading Indian health and fitness app whose artificial intelligence powered virtual nutritionist, Ria, helps its users regarding their queries around fitness and nutrition in both audio and text in more than 10 languages.

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 optimisation theory and predictive analysis.

The app uses 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.

The machine learning facilitates provisions like recognition of past meals, make hierarchical predictions- that is detect high-level categories like beverages and soup as well as specific dishes and ingredients. It also integrates with their Food Knowledge Graph that contains a large set of commonly eaten foods, with nutrition facts, and hierarchical structure.

MAIN IDEA:

We create an application by using HTML and PYTHON programming language with flask framework to provide an solution to the nutrition problem arrised in our day to day and we use an idea of artificial neural network logic to find solutions.