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Patent Search

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Inventor

Name	Address	Country
Mr. M. Balamurugan	Assistant Professor Computer Science (UG) Kristu Jayanti College (Autonomous) Bengaluru Pin: 560077 Karnataka India	India
Dr. Nilam Vaibhav Upasani	Associate Professor Balaji Institute of Technology and Management, Sri Balaji University, Pune Pin: 411033 Maharashtra India	India
Dr. H. Krishna Ram	Research Head Nisarga Research and Development Trust (T), Bengaluru Pin: 560117 Karnataka India	India
Dr.N.Suresh	Head/Prof/ CSE & IT Sri Venkateswara College of Engineering and Technology Chittoor , Pin:517127 Andhra Pradesh India	India
Mr. Aaditya Jain	Assistant Professor College of Computing Sciences and Information Technology, Teerthanker Mahaveer University, Moradabad Delhi Road, NH 24, Bagadpur, Pin: 244001 Uttar Pradesh India	India
Dr. Navya. H	Research Scientist Nisarga Research and Development Trust (T), Bengaluru, Pin: 560117 Karnataka India	India
Ms. Ghazala Ansari	Assistant Professor Department of ECE, SRM Institute of Science and technology, Sikri Kalan, Modinagar Ghaziabad Pin: 201204 Uttar Pradesh India	India
Dr.Belsam Jeba Ananth. M	Associate Professor Department of Mechatronics Engineering, SRM Institute of Science and Technology, Faculty of Engineering and Technology, Kattankulathur Chengalpattu Pin: 603 203 Tamil Nadu India	India
Mr.Narendra K	Department of Botany, Annamalai University, Chidambaram Cuddalore Pin:608002 Tamil Nadu Indian	India
Dr. Sudhir Singh Bhadauria	Postdoctoral Scholar Dr. B. R. Ambedkar University, Paliwal Park, Agra (U. P.). Pin:282004 Uttar Pradesh India	India
Mr. Annam Karthik	Assistant Professor Institute of Aeronautical Engineering, Dundigal, Hyderabad. Medchal Pin:500 043 Telangana India	India
Dr. Harikumar Pallathadka	Director and Professor Manipur International University, Ghari, Imphal, Imphal West, Imphal Pin: 795140 Manipur India	India

Applicant

Name	Address	Country
Mr. M. Balamurugan	Assistant Professor Computer Science (UG) Kristu Jayanti College (Autonomous) Bengaluru Pin: 560077 Karnataka India	India
Dr. Nilam Vaibhav Upasani	Associate Professor Balaji Institute of Technology and Management, Sri Balaji University, Pune Pin: 411033 Maharashtra India	India
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Dr.Belsam Jeba Ananth. M	Associate Professor Department of Mechatronics Engineering, SRM Institute of Science and Technology, Faculty of Engineering and Technology, Kattankulathur Chengalpattu Pin: 603 203 Tamil Nadu India	India
Mr.Narendra K	Department of Botany, Annamalai University, Chidambaram Cuddalore Pin:608002 Tamil Nadu Indian	India
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Dr. Harikumar Pallathadka	Director and Professor Manipur International University, Ghari, Imphal, Imphal West, Imphal Pin: 795140 Manipur India	India

Abstract:

Machine Learning-Based Nutrition Monitoring and Health Awareness System Based on Crowd-Sourced Food Images In order to maintain a healthy diet and avoid becoming overweight, it is essential to consume a normal quantity of nutritious foods on a daily basis. It is more important than ever to study the role that food plays in communities as approximately one-third of the world's population suffers from long-term health issues such as obesity. Recent research has demonstrated the significance of food availability and density, but little is known about the quality and quantity of available foods. However, sophisticated deep learning and recent developments in the collection and analysis of geographic data will aid our investigation. We plan to investigate this issue utilising the capabilities of computer vision and GIS, as well as their interplay. The purpose of this research is to determine whether or not healthy food can be purchased in the area. Using machine learning in the field of health geography, we aim to collect data and model how the local dietary environment contributes to the development of obesity and other chronic diseases. As people become more aware of the correlation between "what we eat" and lifestyle and health, they are utilising more integrated food analysis and identification systems. The purpose of these programmes is to keep notes on what we consume on a daily basis so that you can make healthy dietary and behavioural changes. Mobile applications are useful for discovering food in the real world, calculating weight, and determining its caloric content. In this paper, we present a new system based on machine learning that can correctly classify culinary images and determine their quality without human intervention.

Complete Specification

Description:DESCRIPTIONS:

Individuals are increasingly concerned with maintaining a healthful weight, eating well, and avoiding obesity. This has led to an increase in the practise of calculating calories in a meal. The World Health Organisation reports that more than 11 out of 10 individuals are either overweight or underweight. The medical term for gaining much weight that endangers one's health is obesity. If an individual consumes more calories per day than they burn, they will acquire weight and become obese. Obesity is associated with a variety of severe and long-term health problems. According to the 2013 Obesity Disorders and Treatments Task Force of the American Medical Association, obesity is a critical health issue requiring medical treatment. Therefore, average individuals who want to lose weight and keep it off must record their daily food intake if they wish to attain their objectives. The only way for overweight individuals to lose weight in a healthy manner and for healthy individuals to become even healthier is to record their daily food intake. Traditional methods are based on the individual's diet over the previous twenty-four hours. In contrast, the new methods frequently cause the user to forget about the patient's discomfort or indicate a desire to avoid using these programmes. Although there are advantages in the clinical presentation, the traditional method is founded on an analysis of the user's eating habits. As a result, scientists have abandoned traditional clinical procedures in favour of less time-consuming digital methods for determining a person's daily caloric intake. People who are overweight as well as those who are otherwise healthy benefit from this strategy because they will be able to set reasonable daily calorie consumption goals. Despite scientific advancements, a significant number of individuals continue to suffer from chronic health conditions. This alarmingly high percentage is primarily attributable to their unsafe practises and inconsistent diets. This directly contributes to the global increase in obesity and other weight-related health problems. High blood pressure, diabetes, heart disease, and cancer are among the most common conditions associated with obesity. The preponderance of the world's obesity problems have been identified in countries with high and middle incomes. The

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