



G. Narayanamma Institute of Technology & Science (For Women) (Autonomous)

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Shaikpet, Hyderabad-500104

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

<GN-R-18> (2022 - 2023) II B.Tech II Sem Hobby Project
on "Automated Food Image Classification"

Abstract

Growing importance in the health and medical fields, food image categorization is a new research subject. Automated food recognition techniques will undoubtedly aid in the development of diet monitoring systems, calorie estimation, and other similar applications in the future. Automated food classification methods based on deep learning algorithms are discussed in this research. It's no secret that the amount of calories people eat and drink has a direct impact on their weight: Consume the same number of calories that the body burns over time, and weight stays stable. Consume more than the body burns, weight goes up. Less, weight goes down. There's ample research on foods and diet patterns that protect against heart disease, stroke, diabetes, and other chronic conditions. The good news is that many of the foods that help prevent disease also seem to help with weight control—foods like whole grains, vegetables, fruits, and nuts. And many of the foods that increase disease risk—chief among them, refined grains and sugary drinks—are also factors in weight gain. Conventional wisdom says that since a calorie is a calorie, regardless of its source, the best advice for weight control is simply to eat less and exercise more. Yet emerging research suggests that some foods and eating patterns may make it easier to keep calories in check, while others may make people more likely to overeat.

H/W & S/W Requirements

H/W Requirements: Intel Core I5 processor, 64-bit operating system, 16GB RAM, 512GB SSD, Camera

S/W Requirements: Java, Python

*Dept R&D: Yes / No

* If No : GNITS



21251A0560
Sannithi Deekshita
deekshitasannithi@gmail.com
9849630351



21251A0559
Rayapati Manisha
manisha.ravapati1208@gmail.com
9390788674


Project Coordinator


Head of Department

PRINCIPAL
G. Narayanamma Institute of
Technology & Science (for woman)
(AUTONOMOUS)
Shaikpet, Hyderabad - 500 104.