

OBJECTIVE OF THE PROJECT



- 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.



AIM OF THE PROJECT

- 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.).

PORTFOLIO OF THE PROJECT



DEMO VIDEO



GITHUB CODE



REPORT

NUTRITION IMAGE ANALYSIS

HOME

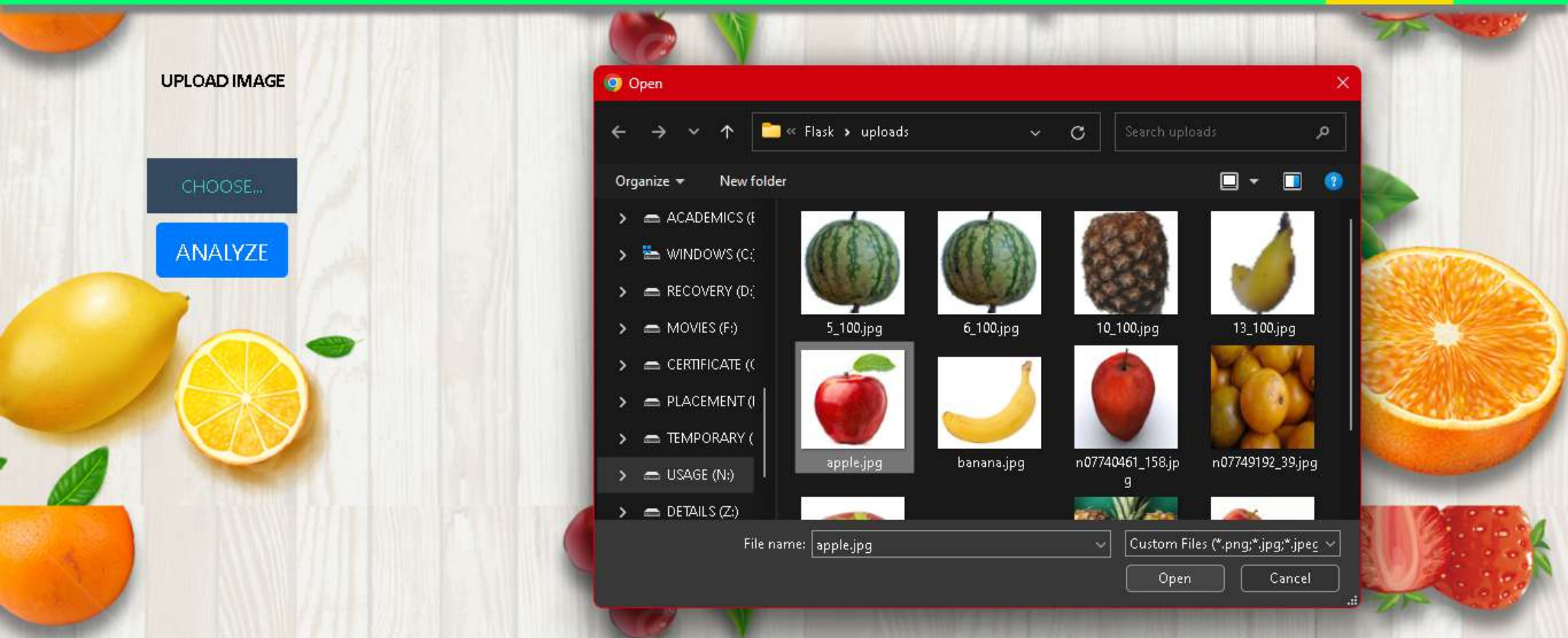
CLASSIFY

UPLOAD IMAGE

CHOOSE...

ANALYZE





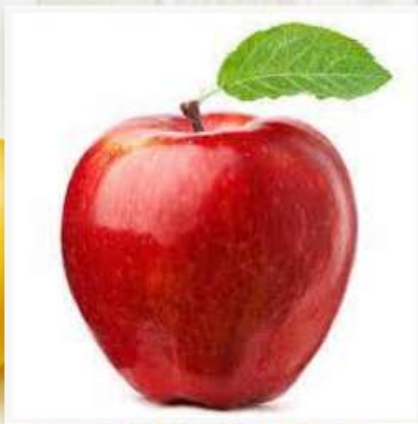
NUTRITION IMAGE ANALYSIS

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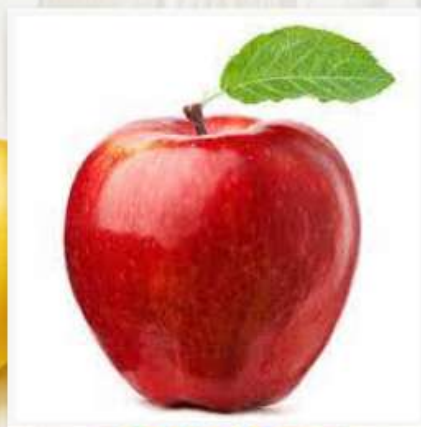


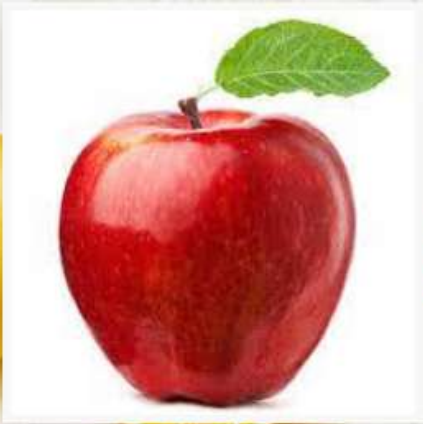
IMAGE CLASSIFIED IS :

APPLES

[{'sugar_g': 10.3, 'fiber_g': 2.4, 'serving_size_g': 100.0, 'sodium_mg': 1, 'name': 'apples', 'potassium_mg': 11, 'fat_saturated_g': 0.0, 'fat_total_g': 0.2, 'calories': 53.4, 'cholesterol_mg': 0, 'protein_g': 0.3, 'carbohydrates_total_g': 13.8}]

UPLOAD IMAGE

CHOOSE...



```
[{'sugar': 0.2, 'name': 'apple', 'calories': 53}]
```

Open

Flask uploads

Search uploads

Organize New folder

ACADEMICS (E)
WINDOWS (C:)
RECOVERY (D:)
MOVIES (F:)
CERTIFICATE (C:)
PLACEMENT (I)
TEMPORARY (C:)
USAGE (N:)
DETAILS (Z:)

5_100.jpg
apple.jpg
Test_Image1.jpg

6_100.jpg
banana.jpg
Test_Image2.jpg

10_100.jpg
n07740461_158.jpg
Test_Image5.jpg

13_100.jpg
n07749192_39.jpg
Test_Image11.jpg

File name: Test_Image5.jpg Custom Files (*.png;*.jpg;*.jpeg)

Open Cancel

24°C Cloudy

Search

ENG IN

05:49 PM 21-11-2022

NUTRITION IMAGE ANALYSIS

HOME

CLASSIFY

UPLOAD IMAGE

CHOOSE...



ANALYZE

NUTRITION IMAGE ANALYSIS

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IMAGE CLASSIFIED IS :

PINEAPPLE

[{'sugar_g': 9.9, 'fiber_g': 1.4, 'serving_size_g': 100.0, 'sodium_mg': 0, 'name': 'pineapple', 'potassium_mg': 8, 'fat_saturated_g': 0.0, 'fat_total_g': 0.1, 'calories': 50.8, 'cholesterol_mg': 0, 'protein_g': 0.5, 'carbohydrates_total_g': 13.0}]