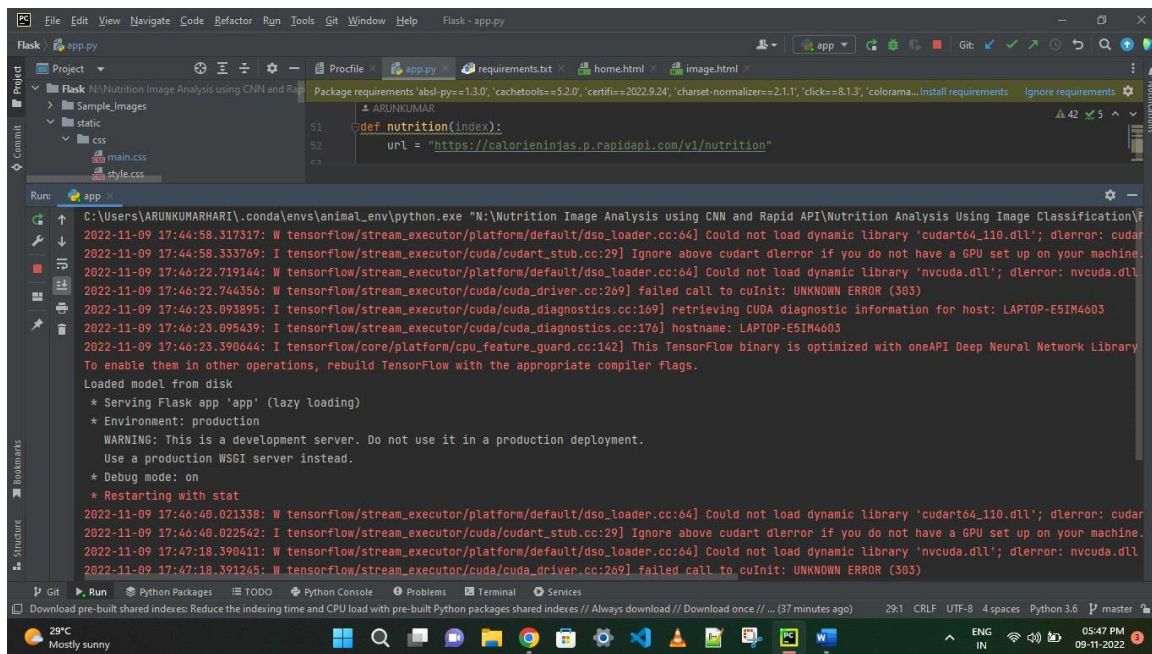


**TEAM ID :PNT2022PMID16515**

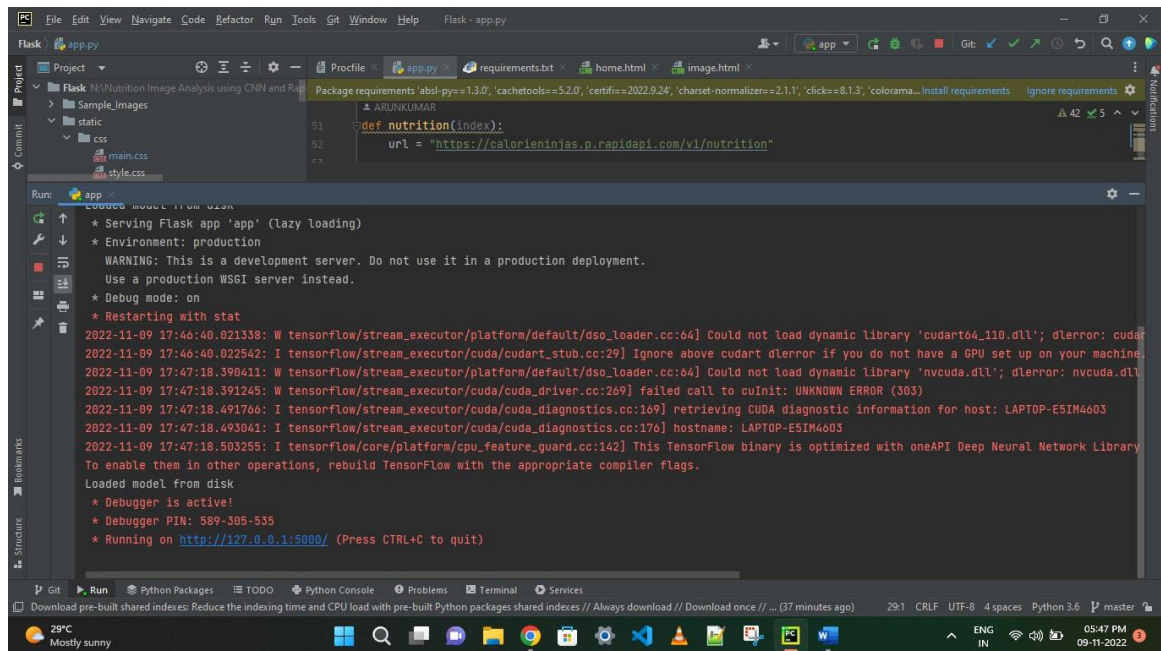
**PROJECT NAME : AI-powered Nutrition Analyzer for Fitness Enthusiasts**

## Run The Application

- Open the anaconda prompt from the start menu.
- Navigate to the folder where your app.py resides.
- Now type the “python app.py” command.
- It will show the local host where your app is running on <http://127.0.0.1:5000/>
- Copy that localhost URL and open that URL in the browser. It does navigate to where you can view your web page.
- **Enter the values, click on the predict button and see the result/prediction on the web page.**
- Then it will run on localhost:5000



```
File Edit View Navigate Code Refactor Run Tools Git Window Help Flask: app.py
Flask: app.py
Project
  Flask: Nutrition Image Analysis using CNN and Rapid API
  Sample_Images
  static
  css
    main.css
    style.css
  app.py
  requirements.txt
  home.html
  image.html
  Package requirements 'absl-py==1.3.0', 'cachetools==5.2.0', 'certifi==2022.9.24', 'charset-normalizer==2.1.1', 'click==8.1.3', 'colorama... Install requirements Ignore requirements
51 def nutrition(index):
52     url = "https://calorieninja.p.rapidapi.com/v1/nutrition"
53
Run: app
C:\Users\ARUNKUMARHARI\conda\envs\animal_env\python.exe "N:\Nutrition Image Analysis using CNN and Rapid API\Nutrition Analysis Using Image Classification\F
2022-11-09 17:44:58.317317: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dLError: cuda
2022-11-09 17:44:58.333769: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dLError if you do not have a GPU set up on your machine.
2022-11-09 17:46:22.719144: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll'; dLError: nvcuda.dll
2022-11-09 17:46:22.744356: W tensorflow/stream_executor/cuda/cuda_driver.cc:269] failed call to cuInit: UNKNOWN ERROR (303)
2022-11-09 17:46:23.093895: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host: LAPTOP-E5IM4603
2022-11-09 17:46:23.095439: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:176] hostname: LAPTOP-E5IM4603
2022-11-09 17:46:23.390644: I tensorflow/core/platform/cpu_feature_guard.cc:142] This TensorFlow binary is optimized with oneAPI Deep Neural Network Library
To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.
Loaded model from disk
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with stat
2022-11-09 17:46:40.021338: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dLError: cuda
2022-11-09 17:46:40.022542: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dLError if you do not have a GPU set up on your machine.
2022-11-09 17:47:18.390411: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll'; dLError: nvcuda.dll
2022-11-09 17:47:18.391245: W tensorflow/stream_executor/cuda/cuda_driver.cc:269] failed call to cuInit: UNKNOWN ERROR (303)
Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // ... (37 minutes ago) 29.1 CRLF UTF-8 4 spaces Python 3.6 master
20°C Mostly sunny 05:47 PM 09-11-2022
```



Navigate to the localhost (<http://127.0.0.1:5000/>) where you can view your web page.

Click on classify button to see the results.

**Output screenshots:**

## 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



DOCUMENTATION

27°C Haze

PREDICT

127.0.0.1:5000/image1

HOME EDITOR STUDIES MEDIA PREMIUM GOVT WEB MOVIES BANK WEB NEWS CHANNELS HOSTING FREE TOOL HACK ONLINE MONEY Quizzz

NUTRITION IMAGE ANALYSIS

HOME CLASSIFY

UPLOAD IMAGE

CHOOSE...

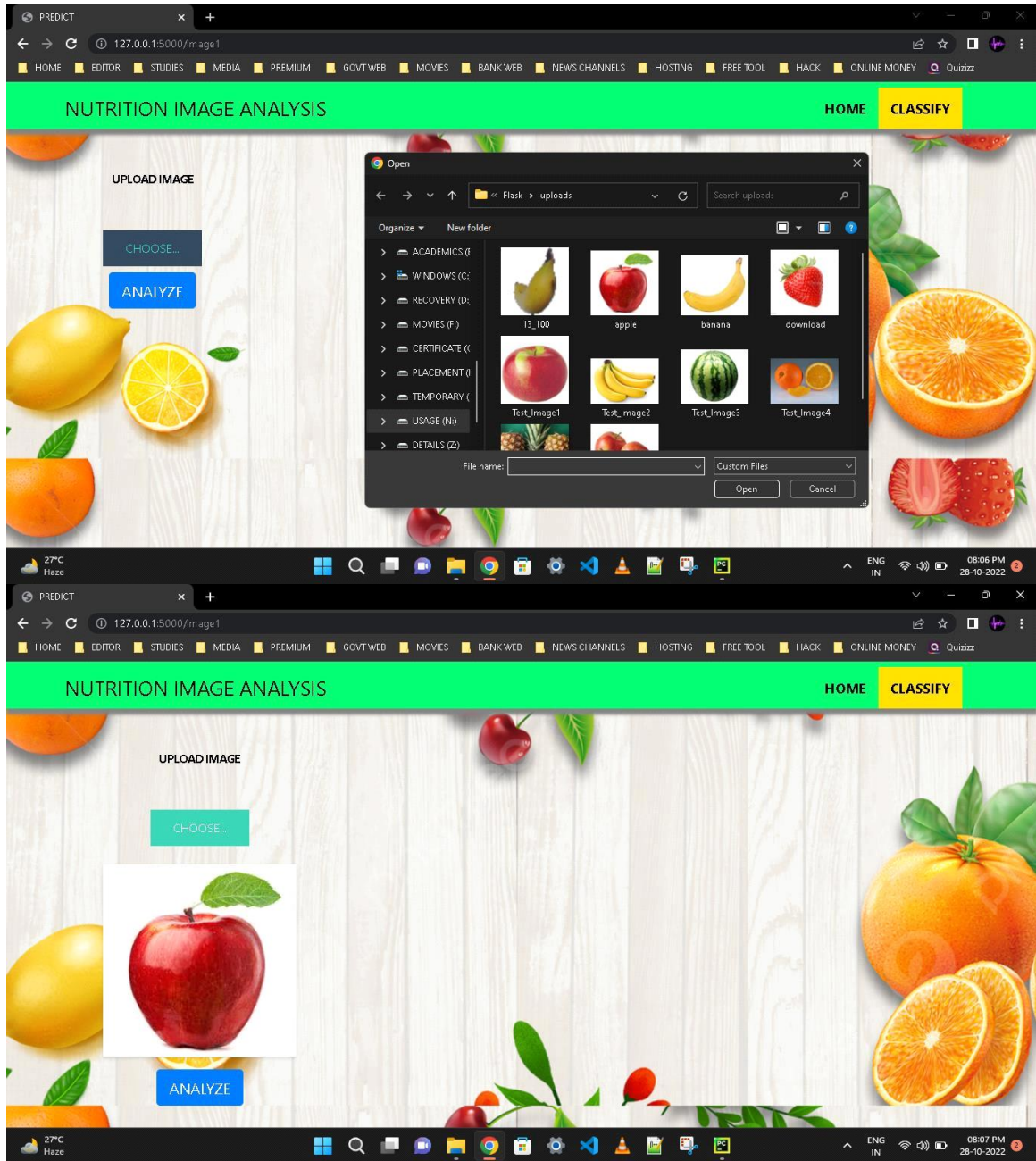
ANALYZE

27°C Haze

ENG IN

08:06 PM 28-10-2022





PREDICT

127.0.0.1:5000/image1

HOME EDITOR STUDIES MEDIA PREMIUM GOVT WEB MOVIES BANK WEB NEWS CHANNELS HOSTING FREE TOOL HACK ONLINE MONEY Quizzz

## NUTRITION IMAGE ANALYSIS

HOME CLASSIFY

UPLOAD IMAGE

CHOOSE...

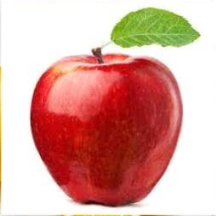


IMAGE CLASSIFIED IS :  
APPLES

[['sugar.g': 2.6, 'fiber.g': 1.2, 'serving\_size.g': 100.0, 'sodium.mg': 4, 'name': 'tomato', 'potassium.mg': 23, 'fat\_saturated.g': 0.0, 'fat\_total.g': 0.2, 'calories': 18.2, 'cholesterol.mg': 0, 'protein.g': 0.9, 'carbohydrates\_total.g': 3.9]]

27°C Haze

ENG IN 08:07 PM 28-10-2022