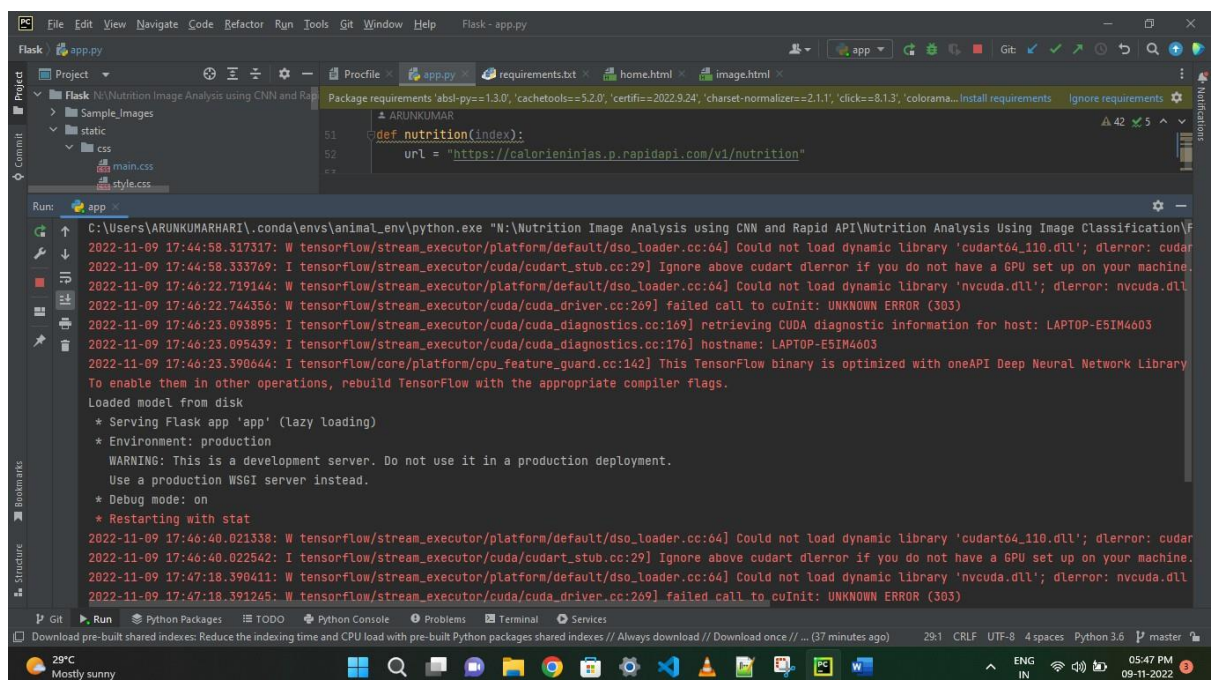


TEAM ID : PNT2022TMID25013

PROJECT NAME : AI-powered Nutrition Analyzer for Fitness Enthusiasts

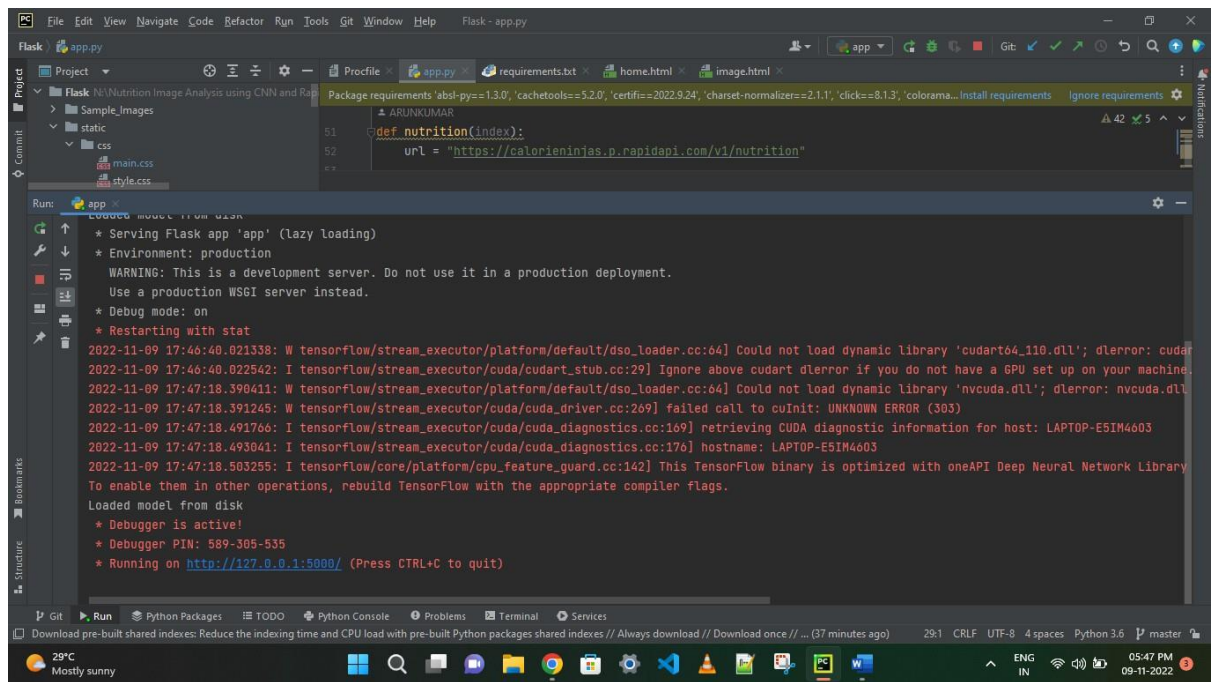
Run The Application

- 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



The screenshot shows the Visual Studio Code editor with the Flask application code and its execution output. The code in `app.py` defines a `nutrition(index)` function that sends a POST request to the Rapid API endpoint `https://calorieninja.p.rapidapi.com/v1/nutrition`. The Run console shows the following output:

```
C:\Users\ARUNKUMARHARI\.conda\envs\animal_env\python.exe "N:\Nutrition Image Analysis using CNN and Rapid API\Nutrition Analysis Using Image Classification\F\nutrition.py"
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'; dlderror: cudart
2022-11-09 17:44:58.333769: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlderror 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'; dlderror: 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'; dlderror: cudart
2022-11-09 17:46:40.022542: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlderror 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'; dlderror: 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)
```



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

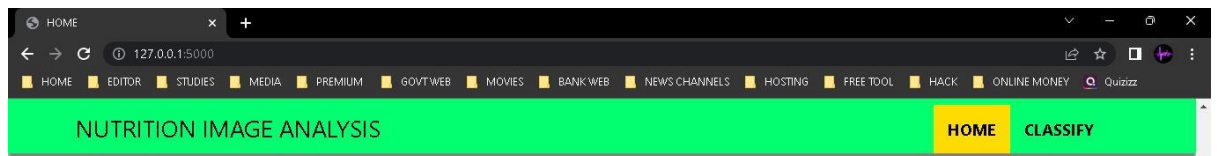


- Food is essential for human life and has been the concern of many healthcare conventions.
- Nowadays new dietary assessment and nutrition analysis tools enable more opportunities to help people understand their daily eating habits, exploring nutrition patterns and maintain a healthy diet.
- Nutritional 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

