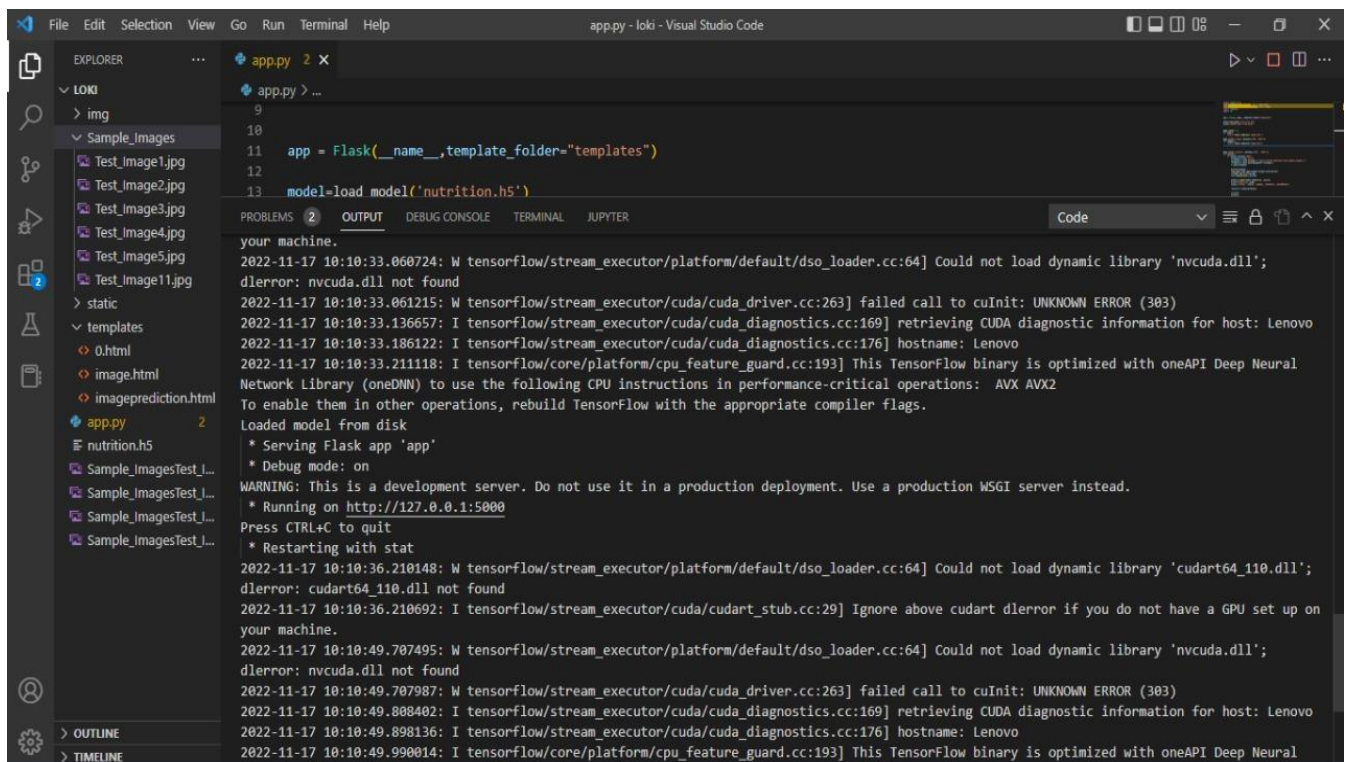


TEAM ID :PNT2022TMID10671

PROJECT NAME : AI-powered Nutrition Analyzer for Fitness Enthusiasts

Run The Application

- Open the Visual Studio Code 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 interface with the file explorer on the left, the editor in the center, and the terminal at the bottom. The file explorer shows a project structure with folders like 'img', 'Sample_Images', 'static', and 'templates'. The editor displays the code for 'app.py', which uses Flask to serve static files and load a model. The terminal shows the output of running 'python app.py', including warnings about TensorFlow's GPU support and the message 'Running on http://127.0.0.1:5000'.

```
File Edit Selection View Go Run Terminal Help
app.py - loki - Visual Studio Code

EXPLORER
  LOKI
    img
    Sample_Images
      Test_Image1.jpg
      Test_Image2.jpg
      Test_Image3.jpg
      Test_Image4.jpg
      Test_Image5.jpg
      Test_Image11.jpg
    static
    templates
      0.html
      image.html
      imageprediction.html
      app.py
      nutrition.h5
      Sample_ImagesTest_...
      Sample_ImagesTest_...
      Sample_ImagesTest_...
      Sample_ImagesTest_...

app.py
  9
  10
  11 app = Flask(__name__, template_folder="templates")
  12
  13 model = load_model('nutrition.h5')
```

```
your machine.
2022-11-17 10:10:33.060724: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll';
dlerror: nvcuda.dll not found
2022-11-17 10:10:33.061215: W tensorflow/stream_executor/cuda/cuda_driver.cc:263] failed call to cuInit: UNKNOWN ERROR (303)
2022-11-17 10:10:33.136657: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host: Lenovo
2022-11-17 10:10:33.186122: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:176] hostname: Lenovo
2022-11-17 10:10:33.211118: I tensorflow/core/platform/cpu_feature_guard.cc:193] This TensorFlow binary is optimized with oneAPI Deep Neural
Network Library (oneDNN) to use the following CPU instructions in performance-critical operations: AVX AVX2
To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.
Loaded model from disk
* Serving Flask app 'app'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
2022-11-17 10:10:36.210148: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll';
dlerror: cudart64_110.dll not found
2022-11-17 10:10:36.210692: 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.
2022-11-17 10:10:49.707495: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll';
dlerror: nvcuda.dll not found
2022-11-17 10:10:49.707987: W tensorflow/stream_executor/cuda/cuda_driver.cc:263] failed call to cuInit: UNKNOWN ERROR (303)
2022-11-17 10:10:49.808402: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host: Lenovo
2022-11-17 10:10:49.898136: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:176] hostname: Lenovo
2022-11-17 10:10:49.990014: I tensorflow/core/platform/cpu_feature_guard.cc:193] This TensorFlow binary is optimized with oneAPI Deep Neural
```


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:

NUTRITION IMAGE ANALYSIS

CHOOSE...



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}]
```

```
[{'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}]
```

NUTRITION IMAGE ANALYSIS

UPLOAD IMAGE

CHOOSE...



ANALYZE

