

FINAL CODE

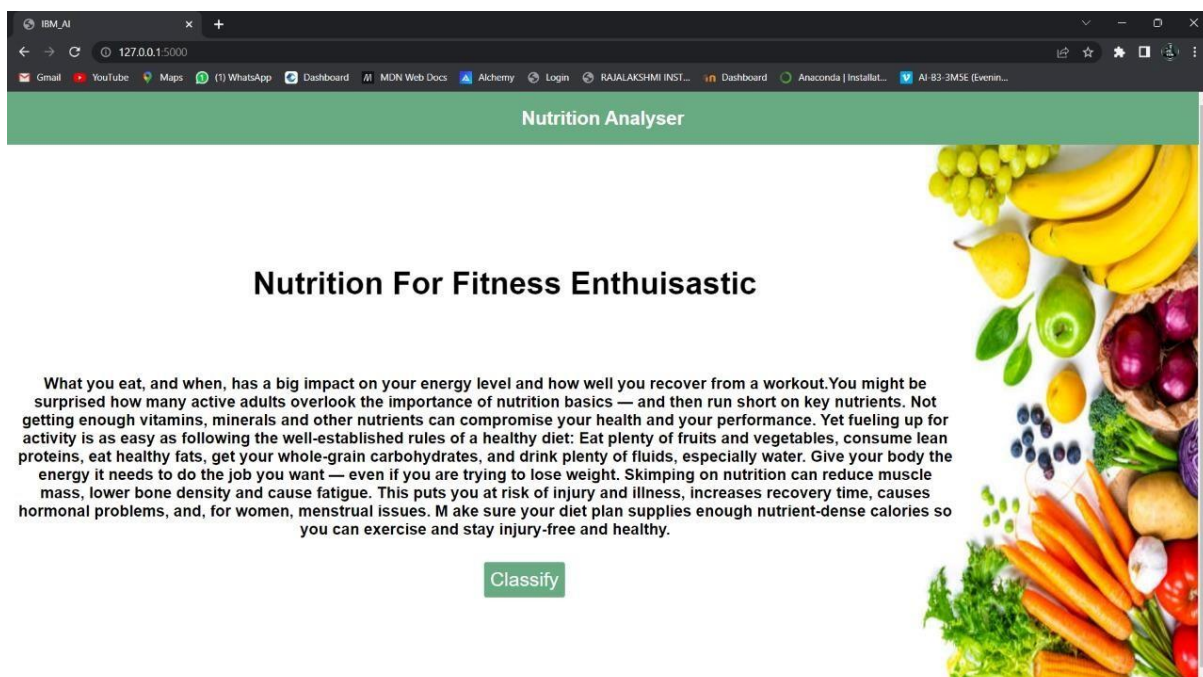
DATE	11.11.2022
TEAM ID	PNT2022TMID25338
PROJECT NAME	AI POWERED NUTRITION ANALYZER FOR FITNESS ENTHUSIASTS

Home.html

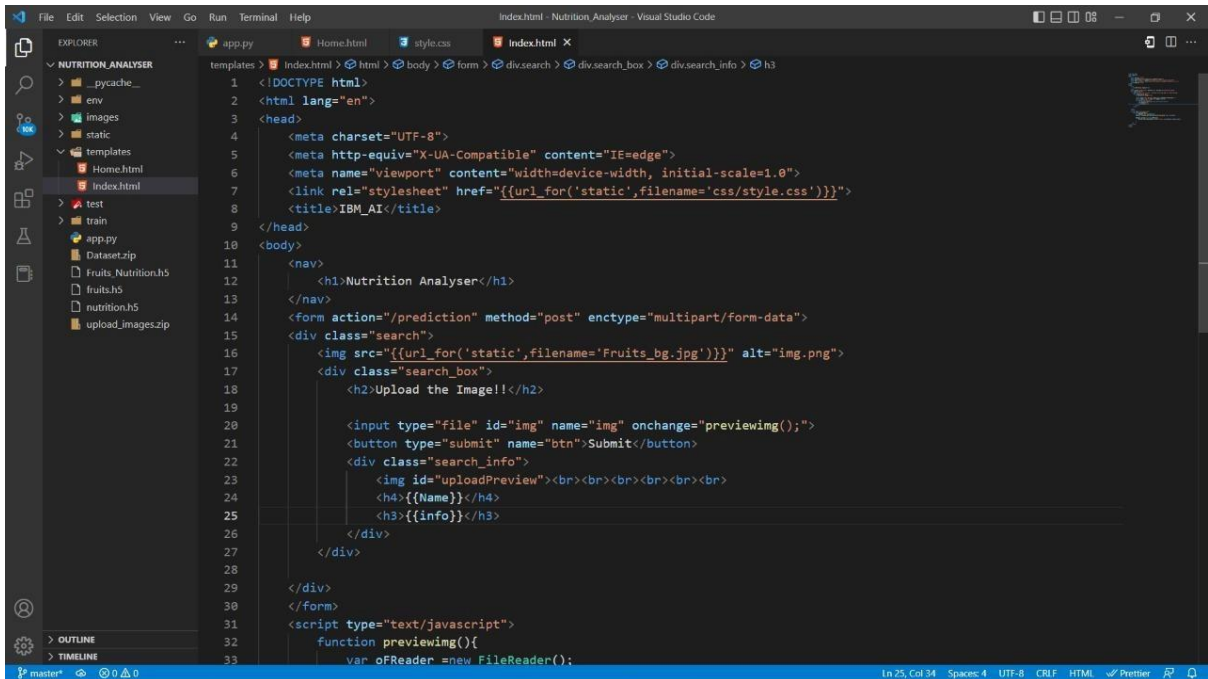
```
File Edit Selection View Go Run Terminal Help
Home.html - Nutrition Analyzer - Visual Studio Code

EXPLORER
  templates
    Home.html
    index.html
    test
    train
  app.py
  Dataset.zip
  Fruits_Nutrition.hs
  fruits.hs
  nutrition.hs
  upload_images.zip

Home.html
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <link rel="stylesheet" href="{{url_for('static',filename='css/style.css')}}">
8   <title>IBM_AI</title>
9 </head>
10 <body>
11   <nav>
12     <h1>Nutrition Analyzer</h1>
13   </nav>
14   <div class="search">
15     
16   <div class="details">
17     <div class="col-lg-6">
18       <h2>Nutrition For Fitness Enthusiastic</h2>
19       <h3>What you eat, and when, has a big impact on your energy level and how well you recover from a workout.
20
21       Not getting enough vitamins, minerals and other nutrients can compromise your health and your performance.
22
23       Yet fueling up for activity is as easy as following the well-established rules of a healthy diet: Eat
24
25       Give your body the energy it needs to do the job you want – even if you are trying to lose weight.
26
27       Skimping on nutrition can reduce muscle mass, lower bone density and cause fatigue. This puts you at risk of injury and illness, increases recovery time, causes
28
29       Make sure your diet plan supplies enough nutrient-dense calories so you can exercise and stay injury-free and healthy.
30     </div>
31     <div class="col-lg-6">
32       <form action="/getdata" method="post" enctype="multipart/form-data">
33         <input type="text" name="text" value="">
34         <button type="submit" name="Classify-btn" class="Classify-btn">Classify</button>
35       </form>
36     </div>
37   </div>
38 </body>
39 </html>
```

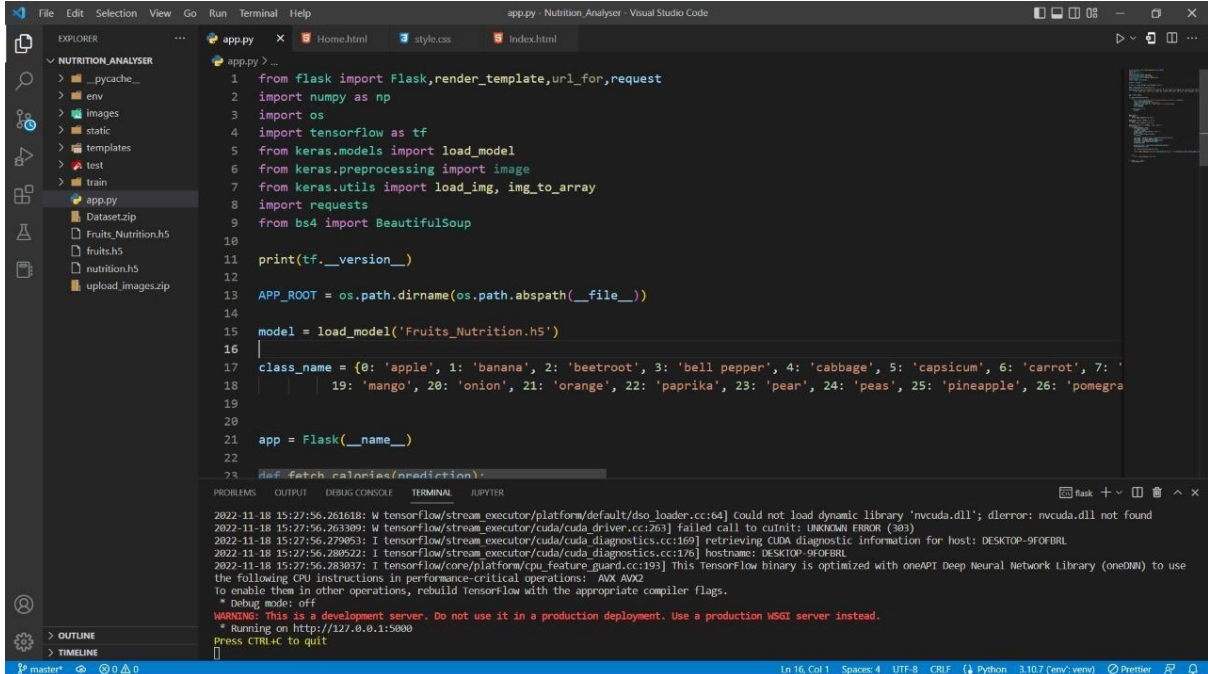


Index.html



```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <link rel="stylesheet" href="{{url_for('static', filename='css/style.css')}}">
8   <title>IBM_AI</title>
9 </head>
10 <body>
11   <nav>
12     <h1>Nutrition Analyser</h1>
13   </nav>
14   <form action="/prediction" method="post" enctype="multipart/form-data">
15     <div class="search">
16       
17       <div class="search_box">
18         <h2>Upload the Image!!</h2>
19
20         <input type="file" id="img" name="img" onchange="previewimg();">
21         <button type="submit" name="btn">Submit</button>
22         <div class="search_info">
23           <img id="uploadPreview"><br><br><br><br><br><br>
24           <h4>{{Name}}</h4>
25           <h3>{{info}}</h3>
26         </div>
27       </div>
28     </div>
29   </form>
30
31   <script type="text/javascript">
32     function previewimg(){
33       var oFReader =new FileReader();
```

App.py



```
1 from flask import Flask,render_template,url_for,request
2 import numpy as np
3 import os
4 import tensorflow as tf
5 from keras.models import load_model
6 from keras.preprocessing import image
7 from keras.utils import load_img, img_to_array
8 import requests
9 from bs4 import BeautifulSoup
10
11 print(tf.__version__)
12
13 APP_ROOT = os.path.dirname(os.path.abspath(__file__))
14
15 model = load_model('Fruits_Nutrition.h5')
16
17 class_name = {0: 'apple', 1: 'banana', 2: 'beetroot', 3: 'bell pepper', 4: 'cabbage', 5: 'capsicum', 6: 'carrot', 7: '
18             19: 'mango', 20: 'onion', 21: 'orange', 22: 'paprika', 23: 'pear', 24: 'peas', 25: 'pineapple', 26: 'pomegra
19
20
21 app = Flask(__name__)
22
23 @app.route('/prediction')
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

```
2022-11-18 15:27:56.261618: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] could not load dynamic library 'nvcuda.dll'; dlerror: nvcuda.dll not found
2022-11-18 15:27:56.279093: W tensorflow/stream_executor/cuda/cuda_driver.cc:263] failed call to cuInit: UNKNOWN ERROR (303)
2022-11-18 15:27:56.279093: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host: DESKTOP-9FOFBRL
2022-11-18 15:27:56.280522: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:176] hostname: DESKTOP-9FOFBRL
2022-11-18 15:27:56.283037: 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.
* Debug mode: off
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
```

IBM_AI

127.0.0.1:5000/prediction

Gmail

YouTube

Maps

(1) WhatsApp

Dashboard

MDN Web Docs

Alchemy

Login

RAJALAKSHMI INST...

Dashboard

Anaconda | Installat...

AI 83-3M5E (Evenin...


Nutrition Analyser

Upload the Image!!

Choose File

Image_1.jpg

Submit



apple

A medium Apple with a diameter of about 3 inches is equal to 1.5 cups of fruit and offers the following nutrients:-Calories – 95,Fiber – 4grams.Carbohydrates – 25grams.Protein – 0.3 grams.Sugar – 10.4 grams.Fat – 0.2 grams.Vitamin C – 14 percent of the RDI (Reference Daily Intake)Vitamin K – 5 percent of the RDI.

