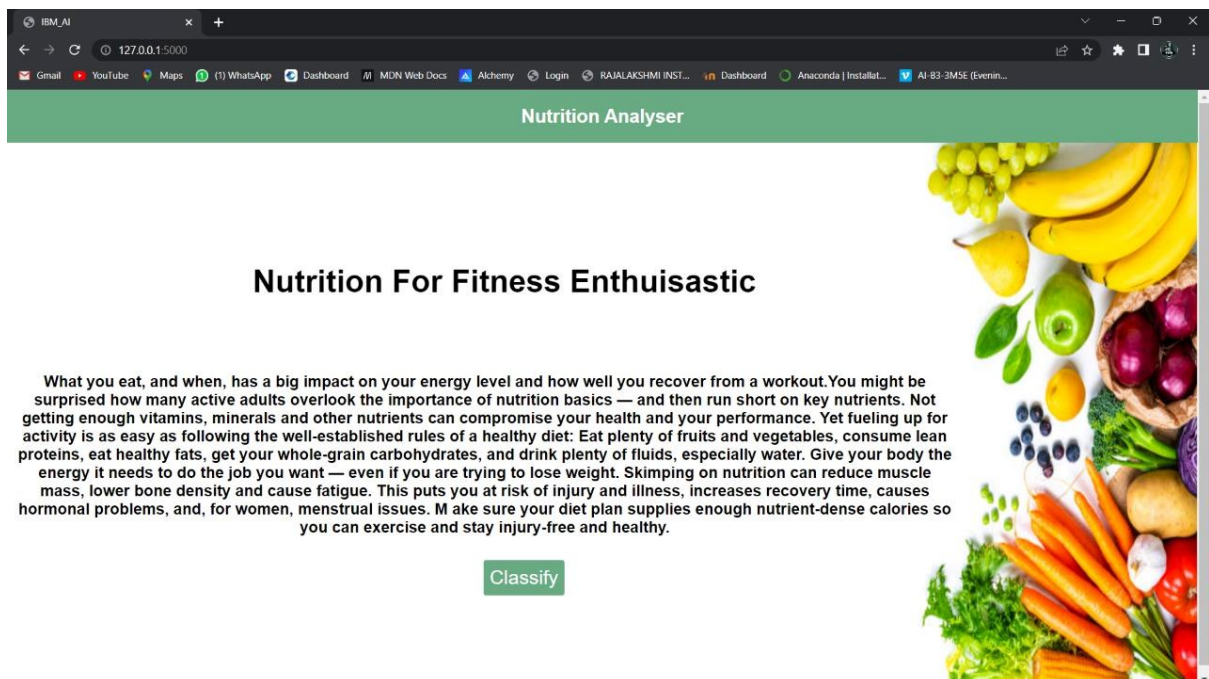


FINAL CODE

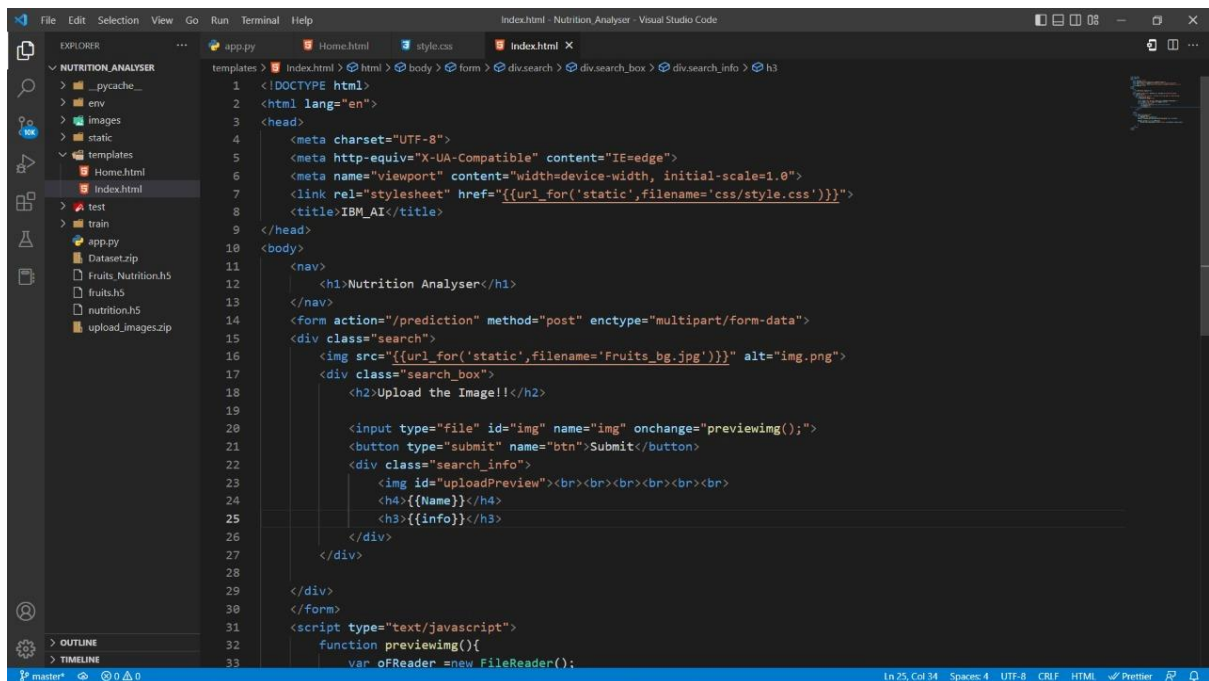
DATE	11.11.2022
TEAM ID	PNT2022TMID26433
PROJECT NAME	AI POWERED NUTRITION ANALYZER FOR FITNESS ENTHUSIASTS

Home.html

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



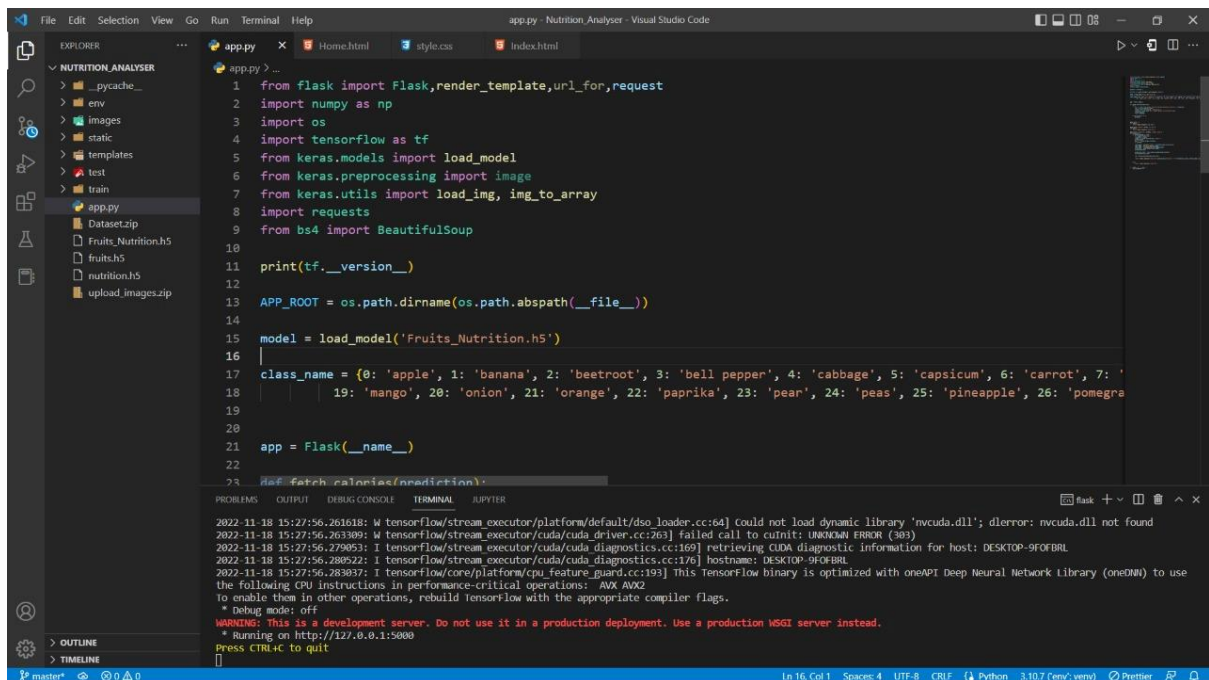
Index.html



The screenshot shows the Visual Studio Code editor with the 'Index.html' file open. The file explorer on the left shows the project structure for 'NUTRITION_ANALYSER'. The code in the editor is as follows:

```
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



The screenshot shows the Visual Studio Code editor with the 'app.py' file open. The file explorer on the left shows the project structure for 'NUTRITION_ANALYSER'. The code in the editor is as follows:

```
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 def fetch_calories(prediction):
```

The terminal at the bottom shows the following output:

```
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 15:27:56.263309: W tensorflow/stream_executor/cuda/cuda_driver.cc:263] failed call to cuInit: UNKNOWN ERROR (303)
2022-11-18 15:27:56.279053: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host: DESKTOP-9F0FBRL
2022-11-18 15:27:56.280222: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:176] hostname: DESKTOP-9F0FBRL
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 3MSE (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.



IBM_AI


127.0.0.1:5000/prediction

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Nutrition Analyser

Upload the Image!!

Choose File Image_7.jpg Submit



capsicum

Some of the most prevalent nutrients found in capsicum are vitamin C, vitamin A, vitamin B6 and folate. Red capsicums are one of the most vitamin C-rich foods in the world. Just 100g gives you 213% of your daily recommended intake.12 Jul 2022

