

Final Code

Date	02 September 2022
Team ID	PNT2022TMID04947
Project Name	AI-Powered Nutrition Analyzer For Fitness Enthusiasts

main.html

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apple.html

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<html>
<head>
<title>About APPLES</title>
</head>
<body>
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<center><h1>APPLES</h1></center><hr>

Sugar Content=25 gram

Fiber=4.5 gram

Serving Size=242g/8os

Sodium=0 milligram

Potassium=260 milligram

Fat Saturated=0 gram

Fat Total=0gram

Calories=95

Cholesterol=0 milligram

Carbohydrates=25 gram

Protein=1 gram

NUTRITION

</body>

</html>

banana.html

<head>

<title>About BANANAS </title>

</head>

<body>

<center><h1>BANANAS</h1></center><hr>

Sugar Content=12 gram

Fiber=2.6 gram

Serving Size=100.0 gram

Sodium=1 milligram

Potassium=22 milligram

Fat Saturated=0.1 gram

Fat Total=0.3 gram

Calories=89

Cholesterol=0 milligram

Carbohydrates=23.2 gram

Protein=1.1 gram

NUTRITION

</body>

</html>

orange.html

<html>

<head>

<title>About ORANGES</title>

</head>

<body>

<center><h1>ORANGES</h1></center><hr>

Sugar Content=9 gram

Fiber=2.4 gram

Serving Size=100 gram

Sodium=0 milligram

Potassium=181 milligram

Fat Saturated=0 gram

Fat Total=0.1 gram

Calories=47

Cholesterol=0 milligram

Carbohydrates=12 gram

Protein=0.9 gram

NUTRITION

</body>

</html>

pineapple.html

<html>

<head>

<title>About PINEAPPLES</title>

</head>

<body>

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<center><h1>PINEAPPLES</h1></center><hr>

Sugar Content=9.9 gram

Fiber=1.4 gram

Serving Size=100 gram

Sodium=0 milligram

Potassium=8 milligram

Fat Saturated=0.0 gram

Fat Total=0.1 gram

Calories=50.8

Cholesterol=0 milligram

Carbohydrates=13.0 gram

Protein=0.5 gram

NUTRITION

</body>

</html>

watermelon.html

<html>

<head>

<title>About WATERMELONS</title>

</head>

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```
<center><h1>WATERMELONS</h1></center><hr>
<ul>
<li>Sugar Content=6 gram</li>
<li>Fiber=0.4 gram</li>
<li>Serving Size=100 gram</li>
<li>Sodium=1 milligram</li>
<li>Potassium=112 milligram</li>
<li>Fat Saturated=0 gram</li>
<li>Fat Total=0.2 gram</li>
<li>Calories=30</li>
<li>Cholesterol=0 milligram</li>
<li>Carbohydrates=8 gram</li>
<li>Protein=0.6 gram</li>
</ul>
<a href="main.html">NUTRITION</a>
</font>
</body>
</html>
```

app.py

```
import numpy as np
import os
from tensorflow.keras.models import load_model
from tensorflow.keras.preprocessing import image
from flask import Flask,render_template,request

app=Flask(__name__)

model=load_model('/content/drive/MyDrive/Colab
Notebooks/Dataset/nutrition.h5')

@app.route('/')
def index():
    return render_template("main.html")
```

```

@app.route('/predict',methods=['GET','POST'])
def upload():
    text=""
    if request.method=='POST':
        f=request.files['image']
        basepath=os.path.dirname(__file__)
        filepath=os.path.join(basepath,'uploads',f.filename)
        f.save(filepath)
        img=image.load_img(filepath,target_size=(64,64))
        x=image.img_to_array(img)
        x=np.expand_dims(x,axis=0)
        pred=np.argmax(model.predict(x),axis=1)
        #index=['APPLES', 'BANANA', 'ORANGE', 'PINEAPPLE', 'WATERMELON']

    if pred==0:
        text="""APPLE===>
            *Calories 95
            *Protein 1g
            *Carbohydrate 25g
            *Fats 0g
            *Dietary Fiber 4.5g
            *Sugar 25 g
            *Sodium 0mg
            *Potassium 260mg"""
        print(text)

    elif pred==1:
        text="""BANANA===>
            *Calories 105
            *Protein 1.39 g
            *carbohydrate 279g
            *Fats 0.49g

```



```
    *Dietary fiber 6.14g
    *Sodium 1.2 mg
    *Potassium 422 mg"""
print(text)
```

```
elif pred==2:
```

```
    text="""ORANGE===>
        *Calories 105
        *Protein 0.9g
        *Fats 0.1g
        *Carbohydrate 18g
        *Dietary fiber 2.39
        *Sugar 9g
        *Sodium 0mg
        *Potassium 173.8mg"""
    print(text)
```

```
elif pred==3:
```

```
    text="""PINEAPPLE===>
        *Calories 452"
        *Protein-4.99g
        *Fats 11g
        *Carbohydrates -199g
        *Dietary Fiber 139g
        *Sugar 89g
        *Sodium 9.1 mg
        *Potassium 986.5mg"""
    print(text)
```

```
elif pred==4:
```

```
    text="""WATERMELON===>
        *Calories 1371
        *Protein 26g
```

```
*Fats-7g
*Carbohydrate 341g
*Dietary Fiber 18g
*Sugar 280g
*Sodium 45.2 mg
*Potassium 5060.2 mg"""
```

```
print(text)
```

```
return text
```

```
if __name__ == '__main__':
    app.run(debug=False)
```