

```
1  import numpy as np
2  import os
3  from tensorflow.keras.models import
    load_model
4  from tensorflow.keras.preprocessing
    import image
5  from flask import Flask,render_template
    ,request
6
7  app=Flask(__name__)
8
9  model=load_model('C:/Users/Malan/Desktop
    /Flask/nutrition.h5')
10
11  @app.route('/')
12  def index():
13      return render_template("index.html")
14
15  @app.route('/predict',methods=['GET'
    , 'POST'])
16  def upload():
17      text=""
18      if request.method=='POST':
19          f=request.files['image']
20          basepath=os.path.dirname
            (__file__)
```

```
21     filepath=os.path.join(basepath
    , 'uploads', f.filename)
22     f.save(filepath)
23     img=image.load_img(filepath
    ,target_size=(64,64))
24     x=image.img_to_array(img)
25     x=np.expand_dims(x,axis=0)
26     pred=np.argmax(model.predict(x
    ),axis=1)
27     #index=['APPLES', 'BANANA',
    'ORANGE', 'PINEAPPLE',
    'WATERMELON']

28
29     if pred==0:
30         text=""APPLE==>
31             *Calories 96
32             *Protein - 0.59g
33             *Carbohydrate 25g
34             *Fats -0.39g
35             *Dietary Fiber 4.4g
36             *Sugar 14 g
37             *Sodium 18mg
38             *Potassium 194.7mg""
39         print(text)
40
41     elif pred==1:
```

```
42         text="""BANANA==>
43             *Calories 105
44             *Protein 1.39 g
45             *carbohydrate 279g
46             *Fats 0.49g
47             *Dietary fibre 6.14g
48             *Sodium 1.2 mg
49             *Potassium 422 mg"""
50     print(text)
51
52     elif pred==2:
53         text="""ORANGE==>
54             *Calories 105
55             *Protein 0.9g
56             *Fats 0.1g
57             *Carbohydrate 18g
58             *Dietary fiben 2.39
59             *Sugar 9g
60             *Sodium 0mg
61             *Potassium 173
62             .8mg"""
63     print(text)
64
65     elif pred==3:
66         text="""PINEAPPLE==>
67             *Calories 452"
```



```
67         *Protein-4.99g
68         *Fats 11g
69         *Carbohydrates -199g
70         *Dietary Fiber 139g
71         *Sugar 89g
72         *Sodium 9.1 mg
73         *Potassium 986
           .5mg"""
74     print(text)
75
76     elif pred==4:
77         text="""WATERMELON==>
78             *Calories 1371
79             *Protein 26g
80             *Fats-7g
81             *Carbohydrate 341g
82             *Dietary Fiber 18g
83             *Sugar 280g
84             *Sodium 45.2 mg
85             *Potassium 5060.2
           mg"""
86     print(text)
87
88     return text
89     if __name__=='__main__':
90         app.run(debug=False)
```