

TEAM ID : PNT2022TMID46670

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from flask import Flask,render_template,request

import os

import numpy as np

from tensorflow.keras.models import load_model

from tensorflow.keras.preprocessing import image

import requests


app = Flask(__name__,template_folder="templates")


model=load_model('nutrition.h5')

print("Loaded model from disk")


@app.route('/')

def home():

    return render_template('home.html')


@app.route('/image1',methods=['GET','POST'])

def image1():

    return render_template("image.html")


@app.route('/predict',methods=['GET', 'POST'])

def launch():

    if request.method=='POST':

        f=request.files['file']
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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)
print("prediction",pred)
index=['APPLES','BANANA','ORANGE','PINEAPPLE','WATERMELON']

result=str(index[pred[0]])

x=result
print(x)
result=nutrition(result)
print(result)

return render_template("0.html",showcase=(result),showcase1=(x))
def nutrition(index):
    url = "https://calorieninjas.p.rapidapi.com/v1/nutrition"

    querystring = {"query": "tomato"}

    headers = {
        "X-RapidAPI-Key": "f2179b0ee2msh46dd220682815e1p1e6122jsnaea9bb30dd96",
        "X-RapidAPI-Host": "calorieninjas.p.rapidapi.com"
    }

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response = requests.request("GET", url, headers=headers, params=querystring)
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print(response.text)
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return response.json()['items']
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if __name__ == "__main__":
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app.run(debug=True)
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