# -\*- coding: utf-8 -\*-

"""

Created on Fri Nov 4 14:19:28 2022

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"""

from flask import Flask,render\_template,request

# Flask-It is our framework which we are going to use to run/serve our application.

#request-for accessing file which was uploaded by the user on our application.

import os

import numpy as np #used for numerical analysis

from tensorflow.keras.models import load\_model#to load our trained model

from tensorflow.keras.preprocessing import image

import requests

app = Flask(\_\_name\_\_,template\_folder="templates") #initializing a flask app

# Loading the model

model=load\_model('fruits.h5')

print("Loaded model from disk")

@ app.route('/')# route to display the home page

def home():

return render\_template('home.html') #rendering the home page

@ app.route('/image1', methods=['GET', 'POST']) # routes to the index html

def image1():

return render\_template("image.html")

@ app.route('/predict' ,methods=['GET','POST']) # route to show the predictions in a Web UI

def lanuch():

if request.method=='POST':

f=request.files['file'] # requesting the file

basepath=os.path.dirname('\_\_file\_\_') #storing the file directory

filepath=os.path.join(basepath,"uploads",f.filename) #storing the file in uploads folder

f.save(filepath) #saving the file

img=image.load\_img(filepath,target\_size=(64,64)) #load and reshaping the image

x=image.img\_to\_array(img) #converting image to an array

x=np.expand\_dims(x,axis=0) #changing the dimensions of the image

pred=np.argmax(model.predict(x), axis=1)

print("prediction",pred) #printing the prediction

index=['APPLE','BANANA','ORANGE','PINEAPPLE','WATERMELON']

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

print(result)

x=result

result=nutrition(result)

print(result)

return render\_template("0.html",showcase=(result),showcase1=(x))

def nutrition(index):

import requests

url = "https://calorieninjas.p.rapidapi.com/v1/nutrition"

querystring = {"query":index}

headers = {

"X-RapidAPI-Key": "85887549f4msh51e7315b280a87ep1f43e0jsn585c940f2ea6",

"X-RapidAPI-Host": "calorieninjas.p.rapidapi.com"

}

response = requests.request("GET", url, headers=headers, params=querystring)

print(response.text)

return response.json()['items']

if \_\_name\_\_ == "\_\_main\_\_":

# running the app

app.run(debug=False)