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('nutrition.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 launch():

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=['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":index}

headers = {

'x-rapidapi-key': "5d797ab107mshe668f26bd044e64p1ffd34jsnf47bfa9a8ee4",

'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)