import requests

from tensorflow.keras.preprocessing import image

from tensorflow.keras.models import load\_model

import numpy as np

import pandas as pd

import tensorflow as tf

from flask import Flask, request, render\_template, redirect, url\_for

import os

from werkzeug.utils import secure\_filename

from tensorflow.python.keras.backend import set\_session

app = Flask(\_\_name\_\_)

#load both the vegetable and fruit models

model = load\_model("vegetable.h5")

model1=load\_model("fruit.h5")

#home page

@app.route('/')

def home():

return render\_template('home.html')

#prediction page

@app.route('/prediction')

def prediction():

return render\_template('predict.html')

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

def predict():

if request.method == 'POST':

# Get the file from post request

f = request.files['image']

# Save the file to ./uploads

basepath = os.path.dirname(\_\_file\_\_)

file\_path = os.path.join(

basepath, 'uploads', secure\_filename(f.filename))

f.save(file\_path)

img = image.load\_img(file\_path, target\_size=(128, 128))

x = image.img\_to\_array(img)

x = np.expand\_dims(x, axis=0)

plant=request.form['plant']

print(plant)

if(plant=="vegetable"):

preds = model.predict(x)

preds=np.argmax(preds)

print(preds)

df=pd.read\_excel('precautions - veg.xlsx')

print(df.iloc[preds]['caution'])

else:

preds = model1.predict(x)

preds=np.argmax(preds)

df=pd.read\_excel('precautions - fruits.xlsx')

print(df.iloc[preds]['caution'])

return df.iloc[preds]['caution']

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

app.run(debug=False)

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