import numpy as np

import streamlit as st

import tensorflow as tf

from PIL import Image, ImageOps

print(tf.\_\_version\_\_)

st.markdown("""

# :orange[Indian Food Recognition]

"""

)

models=[]

model1 = tf.keras.models.load\_model('my\_Mobilenet.h5')

model2 = tf.keras.models.load\_model('my\_Mobilenet.h5')

models.append(model1)

models.append(model2)

file = st.file\_uploader("Please upload an image file", type=["jpg", "png"])

if file is None:

st.text("You haven't uploaded an image file")

else:

image = Image.open(file)

st.image(image,width=175)

size = (224,224)

image = ImageOps.fit(image, size, Image.LANCZOS)

image = image.convert('RGB')

image = np.asarray(image)

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

image = tf.keras.applications.mobilenet\_v3.preprocess\_input(image)

pred=[model.predict(image) for model in models]

pred=np.sum(np.array(pred),axis=0)

#pred = model.predict(image)

if np.argmax(pred) == 0:

st.markdown(''':orange[It is Burger!]''')

st.markdown(''' :red[Ingredients: Onion, cheese slices, powdered garam masala powder, refined oil, ginger paste,burger buns, tomato ketchup, garlic paste, tomato,powdered red chilli, salt, breadcrumbs, lemon juice, butter, coriander leaves, lettuce leaf]''')

st.markdown(''':violet[Method : Grilled or Not-Grilled]''')

elif np.argmax(pred) == 1:

st.markdown(''' :orange[It is Butter Naan!]''')

st.markdown(''' :red[Ingredients: Maida(flour), Fresh curd, Baking soda, Sugar, Salt, Oil,Ghee/butter]''')

st.markdown(''' :violet[Method: Toasting]''')

elif np.argmax(pred) == 2:

st.markdown(''':orange[It is Chai!]''')

elif np.argmax(pred) == 3:

st.markdown(''':orange[It is Chapati!]''')

elif np.argmax(pred) == 4:

st.markdown(''':orange[It is Chole Bhature!]''')

st.markdown(''' :red[]''')

st.markdown(''':violet[]''')

elif np.argmax(pred) == 5:

st.markdown(''':orange[It is Dal Makhni!]''')

st.markdown(''' :red[]''')

st.markdown(''':violet[]''')

elif np.argmax(pred) == 6:

st.markdown(''':orange[It is Franky!]''')

st.markdown(''' :red[]''')

st.markdown(''':violet[]''')

elif np.argmax(pred) == 7:

st.markdown(''':orange[It is Fried Rice!]''')

st.markdown(''' :red[]''')

st.markdown(''':violet[]''')

elif np.argmax(pred) == 8:

st.markdown(''':orange[It is Gajar Halwa!]''')

st.markdown(''' :red[]''')

st.markdown(''':violet[]''')

elif np.argmax(pred) == 9:

st.markdown(''' :orange[It is Gulab Jamun!]''')

st.markdown(''' :red[Ingredients: paneer, Edible oil, water, lemon juice, sugar, green cardamom, mashed khoya, ghee, saffron]''')

st.markdown(''' :violet[Method: Fry]''')

elif np.argmax(pred) == 10:

st.markdown(''':orange[It is Idli!]''')

st.markdown(''':red[Ingredients : basmati rice,fenugreek seeds,sesame oil,urad dal,salt,water]''')

st.markdown(''':violet[Method : Fermentation & Steaming]''')

elif np.argmax(pred) == 11:

st.markdown(''':orange[It is Jalebi!]''')

st.markdown(''' :red[]''')

st.markdown(''':violet[]''')

elif np.argmax(pred) == 12:

st.markdown(''':orange[It is Kadai Paneer!]''')

st.markdown(''' :red[]''')

st.markdown(''':violet[]''')

elif np.argmax(pred) == 13:

st.markdown(''':orange[It is Khaman!]''')

st.markdown(''' :red[Ingredients : flour (besan),sugar,salt,refined oil,mustard seeds, water,lemon juice, baking soda, curry leave]''')

st.markdown(''' :violet[Method : Fermentation & Steaming]''')

elif np.argmax(pred) == 14:

st.markdown(''':orange[It is Kulfi!]''')

st.markdown(''' :red[]''')

st.markdown(''':violet[]''')

elif np.argmax(pred) == 15:

st.markdown(''':orange[It is Masala Dosa!]''')

st.markdown(''' :red[Ingredients: urad dal,fenugreek (methi) seed, raw rice (chawal),par-boiled rice, thick beaten rice (poha), ghee,coconut chutney]''')

st.markdown(''' :violet[Method : Fermentation & Baking]''')

elif np.argmax(pred) == 16:

st.markdown(''':orange[It is Meduvada!]''')

st.markdown(''' :red[Ingredients:urad dal,peppercorns,refined oil,garlic,asafoetida,onion,curry leaves,ginger,salt,water]''')

st.markdown(''' :violet[Method: Fermentation & Fry]''')

elif np.argmax(pred) == 17:

st.markdown(''':orange[It is Mirchi Vada!]''')

st.markdown(''' :red[]''')

st.markdown(''':violet[]''')

elif np.argmax(pred) == 18:

st.markdown(''':orange[It is Momos!]''')

st.markdown(''' :red[Ingredients:soya sauce,mushroom,cabbage,tofu, ginger, water, flour, garlic, onion, chille]''')

st.markdown(''' :violet[Method: Steam or Fry]''')

elif np.argmax(pred) == 19:

st.markdown(''':orange[It is Pani Puri!]''')

st.markdown(''' :red[]''')

st.markdown(''':violet[]''')

elif np.argmax(pred) == 20:

st.markdown(''':orange[It is Pakoda!]''')

st.markdown(''' :red[]''')

st.markdown(''':violet[]''')

elif np.argmax(pred) == 21:

st.markdown(''':orange[It is Pizza!]''')

st.markdown(''' :red[]''')

st.markdown(''':violet[]''')

elif np.argmax(pred) == 22:

st.markdown(''':orange[It is Poha!]''')

st.markdown(''' :red[]''')

st.markdown(''':violet[]''')

elif np.argmax(pred) == 23:

st.markdown(''':orange[It is Rasgulla!]''')

st.markdown(''' :red[Ingredients: milk,sugar,rose water,lime juice,water,powdered green cardamom]''')

st.markdown(''':violet[Method : Coagulation of milk or curding]''')

elif np.argmax(pred) == 24:

st.markdown(''':orange[It is samosa!]''')

st.markdown(''' :red[Ingredients: flour,cumin seeds, ginger, potato,coriander powder, chilli powder, kasoori methi leaves, carom seeds, oil, coriander seeds, green chilli, cumin powder, garam masala powder, salt, coriander leaves, peanuts]''')

st.markdown(''':violet[Method : Fry]''')

elif np.argmax(pred) == 25:

st.markdown(''':orange[It is Vadapav!]''')

st.markdown(''' :red[]''')

st.markdown(''':violet[]''')

else :

st.write("It is a not Food!")