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import cv2

import matplotlib.pyplot as plt
import numpy as np
from flask import Flask, render_template, request
from IPython.display import Audio
from playsound import playsound
from tensorflow.keras.models import load_model
from tensorflow.keras.preprocessing import image
from twilio.rest import Client

app = Flask(__name__)

model = load_model('forest1.h5')



def predictImage(filename):
  img1=image.load_img(filename,target_size=(128,128))
  plt.imshow(img1)
  y=image.img_to_array(img1)
  x=np.expand_dims(y,axis=0)
  val=model.predict(x)
  print(val)
  if val==0:
    message="No Fire"
  elif val==1:
    account_sid='AC960529e897e4c5424527a77b53756372'
    auth_token='2ed5897dc64f2763f9f94779165a4629'
    client=Client(account_sid,auth_token)
    message=client.messages \
      .create(
          body="Forest fire is detected ,stay alert",
          from_='+1 314 937 6720',
          to='+91 9487626593')
    message="Fire"
  return message



# routes
@app.route("/", methods=['GET', 'POST'])
def main():
```

```
  return render_template("index.html")



@app.route("/about")
def about_page():
  return "Please subscribe  Artificial Intelligence Hub..!!!"

@app.route("/submit1", methods = ['GET', 'POST'])
def get_output():
  if request.method == 'POST':
    img = request.files['my_image']

    img_path = "static/" + img.filename
    img.save(img_path)

    p = predictImage(img_path)

  return render_template("index.html", prediction = p, img_path = img_path)

@app.route("/submit2", methods = ['GET', 'POST'])
def new_get_output():
  if request.method == 'POST':
    img = request.files['my_image']

    img_path = "static/" + img.filename
    img.save(img_path)

    p = predictVideo(img_path)

  return render_template("index.html", prediction = p, img_path = img_path)


if __name__ =='__main__':

  app.run(debug=True)
```