

## TEAM ID - PNT2022TMID23849

```
from __future__ import print_function

from __future__ import division

import os

import numpy as np

import tensorflow as tf

from PIL import Image

from flask import Flask, redirect, render_template, request

from keras.applications.inception_v3 import preprocess_input

from keras.models import model_from_json, load_model

from werkzeug.utils import secure_filename

from keras.preprocessing import image

global graph
graph=tf.compat.v1.get_default_graph()

app = Flask(__name__)

json_file=open('final_model.json','r')

loaded_model_json=json_file.read()

json_file.close()

loaded_model=model_from_json(loaded_model_json)

loaded_model.load_weights("final_model.h5")

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

def index():

return render_template('digital.html')
```

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

def upload():

    if request.method=='POST':

        f=request.files['image']

        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=(224,224))

        x=image.img_to_array(img)

        x=np.expand_dims(x,axis=0)

        with graph.as_default():

            preds=loaded_model.predict_classes(x)

        found=["The great Indian bustard is found on the Indian
        subcontinent","The spoon-billed sandpiper is small wader that breeds in
        northeastern India"]

        text= found[preds[0]]

        return text

if __name__=='__main__':

    app.run(threaded=False)

```