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#Purpose : Flask application to serve the user request for IRIS model's prediction request.

#import libraries

from flask import Flask,request

import json

import joblib

#initialize global variables

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

#model file name

joblib\_file = "Iris\_Classifer.jbl"

#load the model from the disk

joblib\_model = joblib.load(joblib\_file)

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

def home():

return "<h1>IRIS Classification Model(Flask based) is running successfully!!!</p>"

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

def predict\_class():

#read request arguments

sepal\_length = request.args.get('sepal-length')

sepal\_width = request.args.get('sepal-width')

petal\_length = request.args.get('petal-length')

petal\_width = request.args.get('petal-width')

#print the arguments' value on the command prompt

print("sepal\_length : {} , sepal\_width: {}, patal\_length : {}, petal\_width : {}".format(sepal\_length, sepal\_width, petal\_length, petal\_width))

#predict the class for the given arguemnt

result = joblib\_model.predict([[sepal\_length, sepal\_width, petal\_length, petal\_width]])

#print the predicted result(json format)

print(json.dumps({"predicted-result": result[0]}))

#return the predicted result(json format)

return (json.dumps({"predicted-result": result[0]}))

if \_\_name\_\_ == '\_\_main\_\_':

app.run(debug=True)