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   #save_model.py

from sklearn.datasets import load_iris from sklearn.ensemble import
RandomForestClassifier import joblib

#Load dataset

X, y = load_iris(return_X_y=True)

#Train a sample model

model = RandomForestClassifier() model.fit(X, y)

#Save the trained model as a .pkl file

joblib.dump(model, 'model.pkl')
```

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    #app.py

from flask import Flask, request, jsonify import joblib import numpy as np

app = Flask(name)

#Load the pre-trained model

model = joblib.load('model.pkl')

@app.route('/predict', methods=['POST']) def predict(): try: # Expect JSON input like:
{"features": [5.1, 3.5, 1.4, 0.2]} data = request.get_json()

  if 'features' not in data:
     return jsonify({"error": "Missing 'features' in request"}), 400

   # Reshape input and predict
   features = np.array(data['features']).reshape(1, -1)
   prediction = model.predict(features)

   return jsonify({
     "prediction": prediction.tolist()
   })
```

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except Exception as e:
   return jsonify({"error": str(e)}), 500

if name == 'main': app.run(debug=True)
```