**Name** : Tatiana Moteu Ngoli
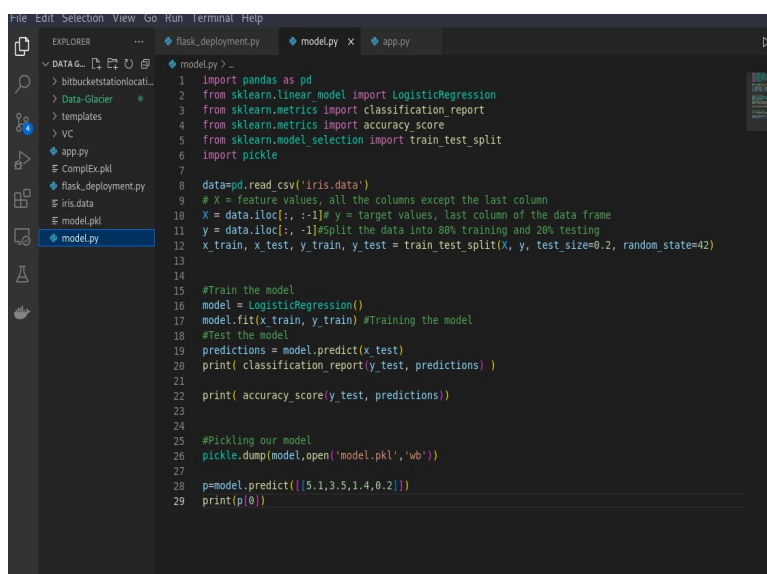**Batch code** : app.py
**Submission data** : 28th September 2022
**Submitted to** : Data Glacier

1. **Dataset** : Iris data

2. **The model** : the code can be find in the file *model.py* and the model has been save under the name *model.pkl*



3. **Deployment on Flask (web app)** : We first loaded our model using *pickle* and then we created our app and we wrote a function to do the prediction and print it on our webpage. The code can found in the file *app.py* as showed in the following pictures

```python
app.py > ⊗ home
1    import numpy as np
2    from flask import Flask, request, jsonify, render_template
3    import pickle
4
5    #load our model
6    model = pickle.load(open('model.pkl', 'rb'))
7
8    #create our app
9    app = Flask(__name__)
10   @app.route('/')
11   def home():
12       return render_template('index.html')
13
14
15   #we write the function to do the prediction and print it on our webpage
16   @app.route('/predict',methods=['POST'])
17   def predict():
18       '''
19       For rendering results on HTML GUI
20       '''
21       int_features = [float(x) for x in request.form.values()]
22
23       final_features = [np.array(int_features)]
24       prediction = model.predict(final_features)
25
26       output =prediction[0]
27
28       return render_template('index.html', prediction_text='The Flower is {}'.format(output))
29
30
31   if __name__ == "__main__":
32       app.run(debug=True)
```
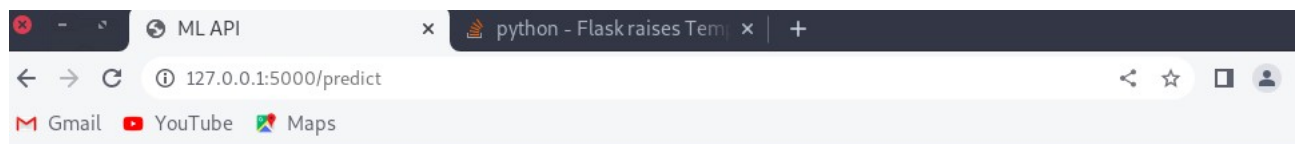
```
127.0.0.1 - - [28/Sep/2022 22:30:32] "GET / HTTP/1.1" 500 -
Traceback (most recent call last):
  File "/home/wilfried/.local/lib/python3.9/site-packages/flask/app.py", line 2095, in __call__
    return self.wsgi_app(environ, start_response)
  File "/home/wilfried/.local/lib/python3.9/site-packages/flask/app.py", line 2080, in wsgi_app
    response = self.handle_exception(e)
  File "/home/wilfried/.local/lib/python3.9/site-packages/flask/app.py", line 2077, in wsgi_app
    response = self.full_dispatch_request()
  File "/home/wilfried/.local/lib/python3.9/site-packages/flask/app.py", line 1525, in full_dispatch_re
quest
    rv = self.handle_user_exception(e)
  File "/home/wilfried/.local/lib/python3.9/site-packages/flask/app.py", line 1523, in full_dispatch_re
quest
    rv = self.dispatch_request()
  File "/home/wilfried/.local/lib/python3.9/site-packages/flask/app.py", line 1509, in dispatch_request
    return self.ensure_sync(self.view_functions[rule.endpoint])(**req.view_args)
  File "/home/wilfried/Downloads/Tati/data glacier virtual/app.py", line 12, in home
    return render_template('index.html')
  File "/home/wilfried/.local/lib/python3.9/site-packages/flask/templating.py", line 149, in render_tem
plate
    ctx.app.jinja_env.get_or_select_template(template_name_or_list),
  File "/home/wilfried/.local/lib/python3.9/site-packages/jinja2/environment.py", line 1081, in get_or_
select_template
    return self.get_template(template_name_or_list, parent, globals)
  File "/home/wilfried/.local/lib/python3.9/site-packages/jinja2/environment.py", line 1010, in get_tem
plate
    return self._load_template(name, globals)
  File "/home/wilfried/.local/lib/python3.9/site-packages/jinja2/environment.py", line 969, in _load_te
mplate
    template = self.loader.load(self, name, self.make_globals(globals))
  File "/home/wilfried/.local/lib/python3.9/site-packages/jinja2/loaders.py", line 126, in load
    source, filename, uptodate = self.get_source(environment, name)
  File "/home/wilfried/.local/lib/python3.9/site-packages/flask/templating.py", line 59, in get_source
    return self._get_source_fast(environment, template)
  File "/home/wilfried/.local/lib/python3.9/site-packages/flask/templating.py", line 95, in _get_source
_fast
    raise TemplateNotFound(template)
jinja2.exceptions.TemplateNotFound: index.html
127.0.0.1 - - [28/Sep/2022 22:30:33] "GET /?__debugger__=yes&cmd=resource&f=style.css HTTP/1.1" 200 -
127.0.0.1 - - [28/Sep/2022 22:30:33] "GET /?__debugger__=yes&cmd=resource&f=debugger.js HTTP/1.1" 200 -
127.0.0.1 - - [28/Sep/2022 22:30:33] "GET /?__debugger__=yes&cmd=resource&f=console.png HTTP/1.1" 200 -
127.0.0.1 - - [28/Sep/2022 22:30:33] "GET /?__debugger__=yes&cmd=resource&f=console.png HTTP/1.1" 304 -
127.0.0.1 - - [28/Sep/2022 22:35:21] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [28/Sep/2022 22:35:22] "GET /favicon.ico HTTP/1.1" 404 -
/home/wilfried/.local/lib/python3.9/site-packages/sklearn/base.py:450: UserWarning: X does not have val
id feature names, but LogisticRegression was fitted with feature names
  warnings.warn(
127.0.0.1 - - [28/Sep/2022 22:35:43] "POST /predict HTTP/1.1" 200 -
 * Detected change in '/home/wilfried/Downloads/Tati/data glacier virtual/app.py', reloading
 * Restarting with watchdog (inotify)
 * Debugger is active!
 * Debugger PIN: 114-995-408
```

*The deployment on the web page is showed in the image below:*

# Predict flowers names

| SepalLength | SepalWidth | PetalLength | PetalWidth | Predict |

The Flower is Iris-virginica