Deployment on Flask

Name: Mufunwa Nemushungwa
LISUM27
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Step 1: Model Creation

Step 2: Index html file creation

Step 3: App creation

```
/Users/mufunwa/Downloads/Flask Deployment/app.py

  app.py    model.py    index.html*

1    import numpy as np
2    from flask import Flask, request,render_template
3    import pickle
4
5    app = Flask(__name__)
6    model = pickle.load(open('model.pkl', 'rb'))
7
8    @app.route('/')
9    def home():
10       return render_template('index.html')
11
12   @app.route('/predict',methods=['POST'])
13   def predict():
14       '''
15       For rendering results on HTML GUI
16       '''
17       int_features = [int(x) for x in request.form.values()]
18       final_features = [np.array(int_features)]
19       prediction = model.predict(final_features)
20
21       output = round(prediction[0], 1)
22
23       return render_template('index.html', prediction_text='Student Performance should be {}'.format(output))
24
25   if __name__ == "__main__":
26       app.run(port=5000,debug=True)
```
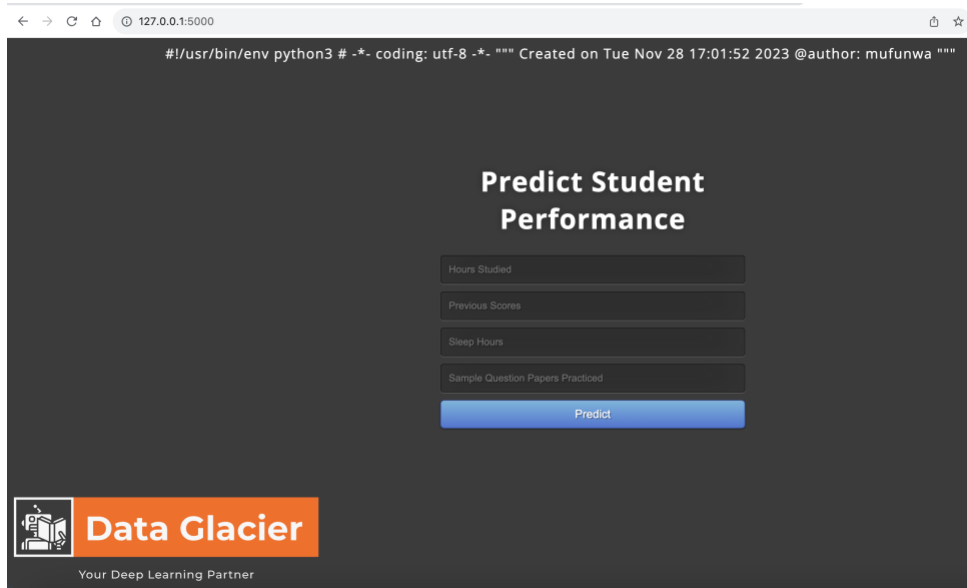
4. Deploying on Flask

```
  X  Console 1/A

Python 3.9.13 (main, Aug 25 2022, 18:29:29)
Type "copyright", "credits" or "license" for more information.

IPython 7.31.1 -- An enhanced Interactive Python.

In [1]: runfile('/Users/mufunwa/Downloads/Flask Deployment/app.py', wdir='/Users/mufunwa/Downloads/Flask Deployment')
 * Serving Flask app "app" (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: on
 * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
 * Restarting with watchdog (fsevents)
 * Debugger is active!
 * Debugger PIN: 136-276-908
127.0.0.1 - - [28/Nov/2023 22:01:22] "GET / HTTP/1.1" 500 -
Traceback (most recent call last):
  File "/Users/mufunwa/opt/anaconda3/lib/python3.9/site-packages/flask/app.py", line 2464, in __call__
    return self.wsgi_app(environ, start_response)
  File "/Users/mufunwa/opt/anaconda3/lib/python3.9/site-packages/flask/app.py", line 2450, in wsgi_app
    response = self.handle_exception(e)
```

5. Testing on web server

url to app: http://127.0.0.1:5000/predict