Week 4: Deployment on Flask

Batch Code : LISUM14

Submitted to:Data Glacier

Han-Fu Lin OCT 27

Writing Flask Application

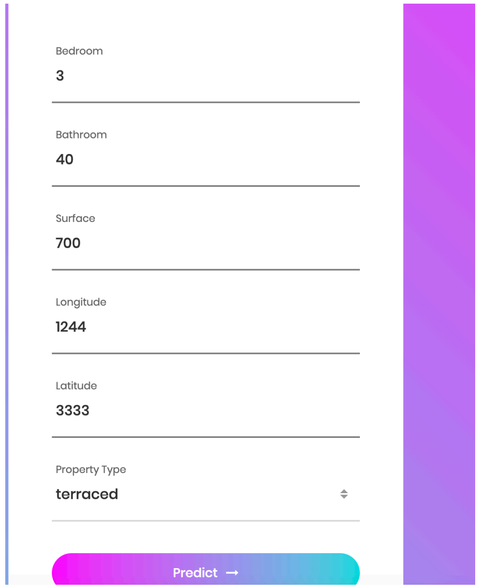
Step 1: Design model and machine learning

```python
import numpy as np
import pickle
from flask import Flask, request, render_template

app = Flask(__name__)
model = pickle.load(open('Week 4/Game.sav', 'rb'))

@app.route('/')
def home():
        return render_template('index.html')

@app.route('/predict', methods=['POST'])
def predict():
        flag = False
        if request.method == "POST":
                bedroom = int(request.form.get('bedroom'))
                bathroom = int(request.form.get('bathroom'))
                surface = float(request.form.get('surface'))
                longitude = float(request.form.get('longitude'))
                latitude = float(request.form.get('latitude'))
                ptype = int(request.form.get('ptype'))

                raw_features = [bathroom, bedroom, surface, longitude, latitude, ptype]
                features = [np.array(raw_features)]

                prediction = model.predict(features)
                output = round(prediction[0], 2)
                return render_template('index.html',flag=True, prediction_text=f'House price should be €{output}.')
```

Run on terminal and open link in browser

Then We run the file on terminal file:///Users/han-fulin/Downloads/web app/templates/index.html

```
* Environment: development
* Debug mode: on
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
* Restarting with stat
* Debugger is active!
```



The House Price should be €36454.18

Prediction

Bedroom
Eg: 3

Bathroom
Eg: 2

Surface
Eg: 124.6

Longitude
Eg: -6.101148

Latitude
Eg: 53.566881

Property Type
Site