

Deployment on Flask

Batch code: LISP01

Submission date: 21 March, 2021

Submission to: Data Glacier

Agenda

Model
Deploy on flask
Web App Test



Model

Training and saving model

```
In [39]: filename = 'finalized_model.sav'
    pickle.dump(logit, open(filename, 'wb'))
    loaded_model = pickle.load(open(filename, 'rb'))
    result = loaded_model.score(train_x, train_y)
    print(result)

0.8491818608083906
Saved model
```

Importing libraries, loading model and creating main view

```
from flask import Flask, render_template, request
import numpy as np
import pickle
app = Flask(__name__)
filename = '../W4 deliverables/finalized model.sav'
model = pickle.load(open(filename, 'rb'))
@app.route('/')
def registrarse():
   result={'profit':'',
        'descr':'' }
   return render_template('registrarse.html',result=result)
```

Loaded model

Creating model view

```
@app.route("/upload", methods=['GET','POST'])
                                             def uploader():
                                                if request.method == 'POST':
                                               # obtenemos el archivo del input "archivo"
                                                   km=request.form['km']
                                                   company=request.form['company']
                                                    city=request.form['city']
                                                   day=request.form['day']
                                                   month=request.form['month']
 Input data
                                                   print(type(km),type(company),type(city),type(day),type(month))
                                                   int_features = [float(km),int(month),int(day),int(company),int(city)]
                                                   final features = [np.array(int features)]
                                                   prediction =model.predict(final_features)
Prediction
                                                   output = round(prediction[0],2)
                                                   print(output)
                                                   result={
                                                      'profit':output,
                                                     'descr':'The profit should be: $' }
                                                   return render_template('registrarse.html',result=result)
                                             if name == ' main ':
                                                 app.run(host='0.0.0.0' , port = 8080, debug=True)
```

Creating template

```
<!DOCTYPE html>
<html lang="en">
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
 <title>Registrarse</title>
  <div id='pric'>
  <h1>Predict rides profit /h1
  <form action="/upload" method="POST" class="form-inline tm-search-form" enctype="multipart/form-data">
   <label for="mapel">Company</label>
   <select name="company" id="cars">
     <option value="1">Pink</option>
     <option value="0">Yelow</option>
   <label for="mapel">Day</label>
   <select name="day" id="cars">
     <option value="1">1</option>
     <option value="2">2</option>
     <option value="3">3</option>
     <option value="4">4</option>
     <option value="5">5</option>
     <option value="6">6</option>
     <option value="7">7</option>
     <option value="8">8</option>
     <option value="9">9</option>
     <option value="10">10</option>
```

```
<label for="mapel">City</label>
 <select name="city" id="cars">
   <option value="0">ATLANTA GA</option>
   <option value="1">AUSTIN TX</option>
   <option value="2">BOSTON MA</option>
   <option value="3">CHICAGO IL</option>
   <option value="4">DALLAS TX</option>
   <option value="5">DENVER CO</option>
   <option value="6">LOS ANGELES CA</option>
   <option value="7">MIAMI FL</option>
   <option value="8">NASHVILLE TN</option>
   <option value="9">NEW YORK NY</option>
   <option value="10">ORANGE COUNTY</option>
   <option value="11">PHOENIX AZ</option>
   <option value="12">PITTSBURGH PA</option>
   <option value="13">SACRAMENTO CA</option>
   <option value="14">SAN DIEGO CA</option>
   <option value="15">SEATTLE WA</option>
   <option value="16">SILICON VALLEY</option>
   <option value="17">TUCSON AZ</option>
   <option value="18">WASHINGTON DC</option>
 <label for="fdni">KM</label>
 <input type="number" id="fdni" name="km" placeholder="Put KM" minlength="8" maxlength="8" required>
 <input type="submit" value="Send">
<strong>{{result.descr}}{{result.profit}}</strong>
```

Creating styles for template

```
input[type=text], select {
   width: 100%;
   padding: 12px 20px;
   margin: 8px 0;
   display: inline-block;
   border: 1px solid ■#ccc;
   border-radius: 4px;
   box-sizing: border-box;
 input[type=number], select {
   width: 100%;
   padding: 12px 20px;
   margin: 8px 0;
   display: inline-block;
   border: 1px solid ■#ccc;
   border-radius: 4px;
   box-sizing: border-box;
 input[type=submit] {
   width: 100%;
   background-color: ■#4CAF50;
   color: ■white;
   padding: 14px 20px;
   margin: 8px 0;
   border: none;
   border-radius: 4px;
   cursor: pointer;
```

```
input[type=submit]:hover {
    background-color: ■#45a049;
}

#pric {
    width: 30%;
    border-radius: 5px;
    background-color: ■#f2f2f2;
    padding: 10px;
    margin:0 auto;
}
body {
    background-image: url("123.jpg");
}

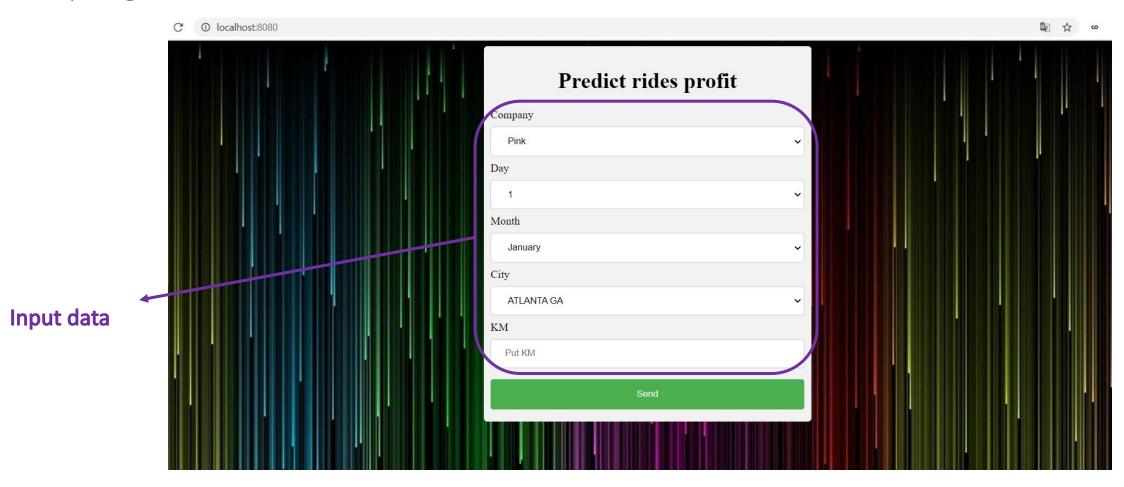
h1{
    text-align:center;
    |
}
```

Running App

```
(flask) D:\repos\DG\W4\flask>python app.py
* 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
* Restarting with stat
* Debugger is active!
* Debugger PIN: 266-435-914
* Running on http://0.0.0.0:8080/ (Press CTRL+C to quit)
```

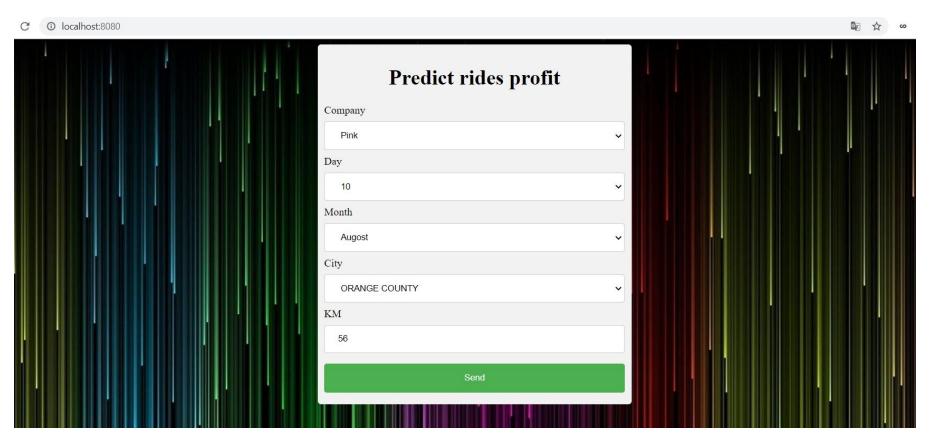
Web App Test

Opening URL: localhost:8080



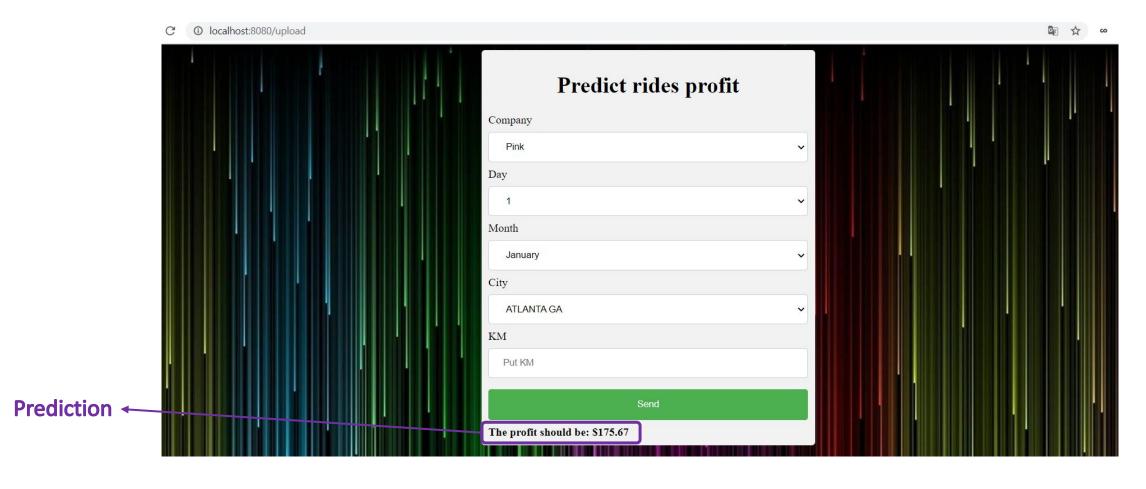
Web App Test

Putting data



Web App Test

Prediction of profit



Thank You

