PROJECT DEVELOPMENT PHASE (DELIVERY OF SPRINT-3)

Date	12th November 2022
Team ID	PNT2022TMID23302
Project Name	Car Resale Value prediction
Maximum marks	4 Marks

• Flask Framework:

```
# Import Libraries
import pandas as pd
import numpy as np
from flask import Flask, render_template, Response, request
import pickle
from sklearn.preprocessing import LabelEncoder
app = Flask(__name__)#initiate flask app
def load_model(file='model.sav'):#load the saved model
    return pickle.load(open(file, 'rb'))
@app.route('/')
def index():#main page
    return render_template('car.html')
@app.route('/predict_page')
def predict_page():#predicting page
    return render_template('value.html')
@app.route('/predict', methods=['GET','POST'])
def predict():
    reg_year = int(request.args.get('regyear'))
    powerps = float(request.args.get('powerps'))
    kms= float(request.args.get('kms'))
    reg_month = int(request.args.get('regmonth'))
    gearbox = request.args.get('geartype')
    damage = request.args.get('damage')
    model = request.args.get('model')
    brand = request.args.get('brand')
    fuel_type = request.args.get('fuelType')
    veh_type = request.args.get('vehicletype')
```

```
new_row = {'yearOfReg':reg_year, 'powerPS':powerps, 'kilometer':kms,
                'monthOfRegistration':reg_month, 'gearbox':gearbox,
                'notRepairedDamage':damage,
                'model':model, 'brand':brand, 'fuelType':fuel_type,
                'vehicletype':veh type}
    print(new_row)
    new_df = pd.DataFrame(columns=['vehicletype','yearOfReg','gearbox',
        'powerPS', 'model', 'kilometer', 'monthOfRegistration', 'fuelType',
        'brand','notRepairedDamage'])
    new_df = new_df.append(new_row, ignore index=True)
    labels =
['gearbox', 'notRepairedDamage', 'model', 'brand', 'fuelType', 'vehicletype']
    mapper = {}
    for i in labels:
        mapper[i] = LabelEncoder()
        mapper[i].classes = np.load(str('classes'+i+'.npy'),
allow_pickle=True)
        transform = mapper[i].fit_transform(new_df[i])
        new_df.loc[:,i+'_labels'] = pd.Series(transform, index=new_df.index)
    labeled = new_df[['yearOfReg','powerPS','kilometer','monthOfRegistration']
+ [x+'_labels' for x in labels]]
   X = labeled.values.tolist()
    print('\n\n', X)
    predict = reg model.predict(X)
    #predict = predictions['predictions'][0]['values'][0][0]
    print("Final prediction :",predict)
    return render_template('predict.html',predict=predict)
if __name__=='__main__':
    reg_model = load_model()#load the saved model
   app.run(debug=True)
```

HTML Design Code:

```
<!DOCTYPE html>
<nav lang="en" dir="ltr">
    <style>
      :root {
  --typewriterSpeed: 6s;
body
    margin:0;
    background-color:peachpuff;
h1
    position:relative;
    font-size:4rem;
    position:relative;
a{
 text-decoration: none;
.bg{
  margin:50px 170px;
button{
  margin-left: 650px;
  background-color: lightgreen;
h1::before,
h1::after
    content:"";
    position:absolute;
    top:0;
    bottom:0;
    left:0;
    right:0;
h1::before
    background:peachpuff;
    animation:typewritter 6s steps(28) 2s forwards;
```

```
h1::after
    width:0.125em;
    background:black;
    animation:
    typewritter 6s steps(28) 2s forwards,
    blink 730ms steps(28) infinite,
    blinks 12s steps(28) forwards;
@keyframes blinks
    to{
        background-color:peachpuff;
@keyframes typewritter
    to{left:100%;}
@keyframes blink
    to{
    background-color:transparent;
.subtitle
 display:grid;
 place-content:center;
 text-align:center;
    color:hsl(0 0% 0%/0.7);
    font-size:2rem;
    font-weight:400;
    opacity:0;
    transform: translateY(3rem);
    animation: fade 2s ease 8s forwards;
@keyframes fade {
 to {
    opacity: 1;
    transform: translateY(0);
     div {text-align: center;}
 </style>
```

```
<meta charset="utf-8">
    <title>Car resale value </title>
    <link rel="stylesheet" href="../static/css/style.css">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-</pre>
awesome/4.7.0/css/font-awesome.min.css">
  </head>
  <body>
    <section class="header">
      <div class="text-box">
        <h1 class="bg">CAR RESALE VALUE PREDICTION</h1>
        welcome to our webpage</a>
        <br>
        <button class="subtitle "><a href="./predict page" style="font-</pre>
size:30px" >Check price</a></button>
        <a href='https://postimg.cc/kB3n3Ss8' target='_blank'><img</pre>
src='https://i.postimg.cc/kB3n3Ss8/drift2.jpg'
border='0' style="width:600px"alt='drift2'/></a>
      </div>
    </section>
  </nav>
    </body>
    </body>
  </body>
 /html>
```

Application Webpage:





