PROJECT DEVELOPMENT PHASE (DELIVERY OF SPRINT-3)

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| **Date** | **10th November 2022** |
| **Project Name** | **Car Resale Value prediction** |
| **Max imum 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">

<head>

<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- 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>

<p class="subtitle">welcome to our webpage</a></p>

<br>

<button class="subtitle "><a href="./predict\_page" style="font- size:30px" >Check price</a></button>

<a href='https://postimg.cc/kB3n3Ss8' target='\_blank'><img 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:







