

PROJECT DEVELOPMENT PHASE

(DELIVERY OF SPRI NT-3)

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|---------------|-----------------------------|
| Date | 19 November 2022 |
| Team I D | PNT2022TMID39573 |
| 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.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)

```

```
<!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:typewriter 6s steps(28) 2s forwards; }
```

```

h1::after
{
    width:0.125em;
background:black;
animation:
    typewriter 6s steps(28) 2s forwards,
blink 730ms steps(28) infinite,    blinks
12s steps(28) forwards;
}
@keyframes blinks
{
    to{        background-
color:peachpuff;
    }
}
@keyframes typewriter
{
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>

```

```

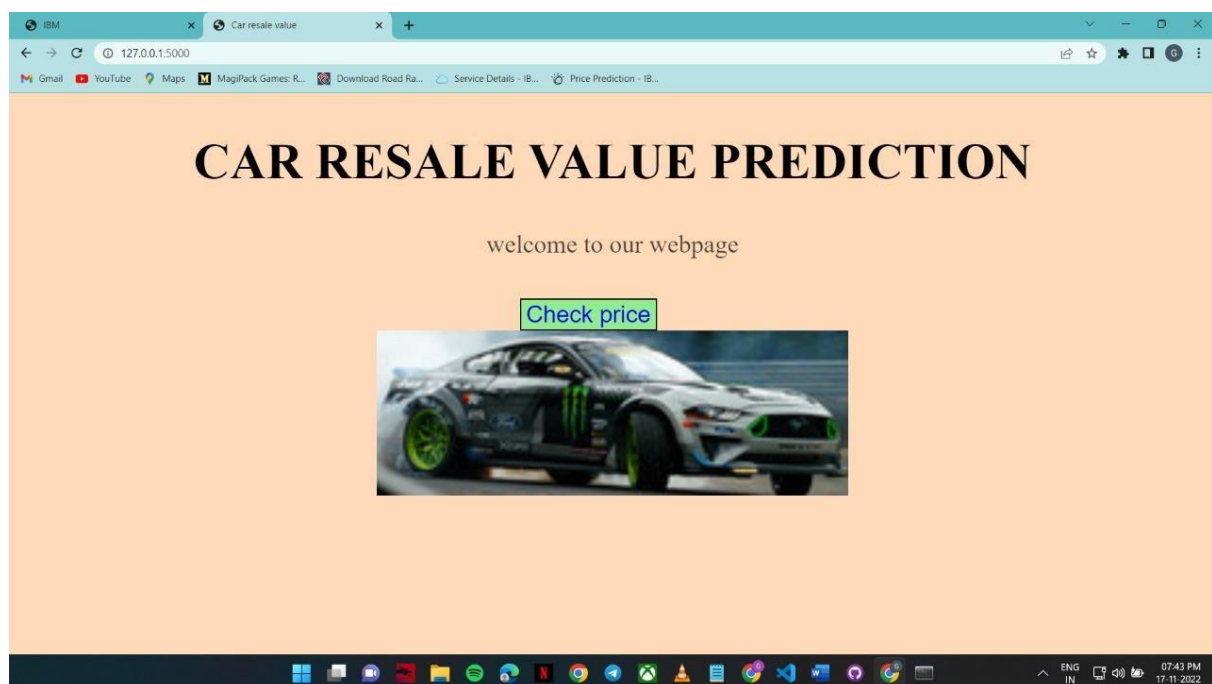
<meta charset="utf-8">
<title>Car resale value </title>
<link rel="stylesheet" href="../static/css/style.css">
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/4.7.0/css/font-
awesome.min.css">
</head>
<body>

<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 Web page:



IBM Car resale value

127.0.0.1:5000/predict_page

Gmail YouTube Maps MagiPack Games: R... Download Road Ra... Service Details - IB... Price Prediction - IB...

Accurate Resale Value of Your Car

Registration year :

Registration Month :

Power of car in PS:

Kilometers that car have driven :

Gear type : ☒ Manual ☐ Automatic ☐ Not declared

Your car is repaired or damaged : ☐ Yes ☒ No ☐ Not declared

Model Type :

Windows taskbar: ENG IN 07:45 PM 17-11-2022

IBM Car resale value

127.0.0.1:5000/predict_page

Gmail YouTube Maps MagiPack Games: R... Download Road Ra... Service Details - IB... Price Prediction - IB...

Power of car in PS:

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Gear type : ☒ Manual ☐ Automatic ☐ Not declared

Your car is repaired or damaged : ☐ Yes ☒ No ☐ Not declared

Model Type :

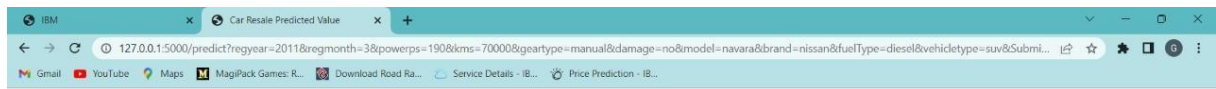
Brand :

Fuel Type :

Vehicle type:

Submit

Windows taskbar: ENG IN 07:45 PM 17-11-2022



The Predicted Car Resale Value is

₹[16984.07610861]

