

PROJECT DEVELOPMENT PHASE

(DELIVERY OF SPRINT-3)

Date	10 November 2022
Team ID	PNT2022TMID13795
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">
  <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/font-
awesome/4.7.0/css/font-awesome.min.css">

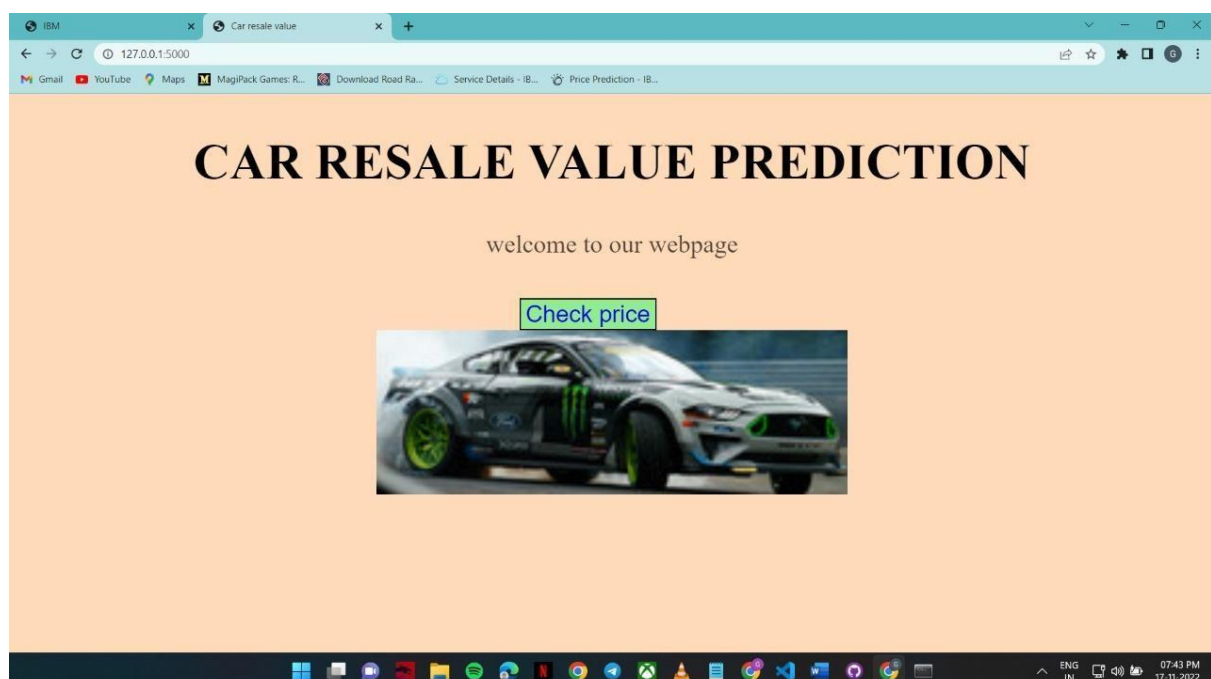
</head>
<body>

  <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://posting.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>
</htm
l>

```

Application Webpage:



IBM x Car resale value x +

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 x Car resale value x +

127.0.0.1:5000/predict_page

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

Model Type :

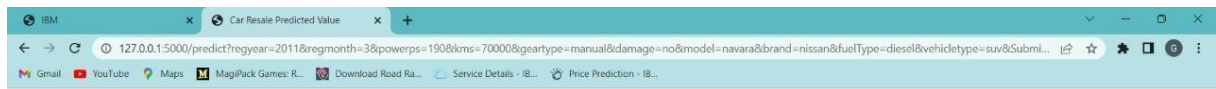
Brand :

Fuel Type :

Vehicle type:

Submit

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



The Predicted Car Resale Value is

₹[16984.07610861]

