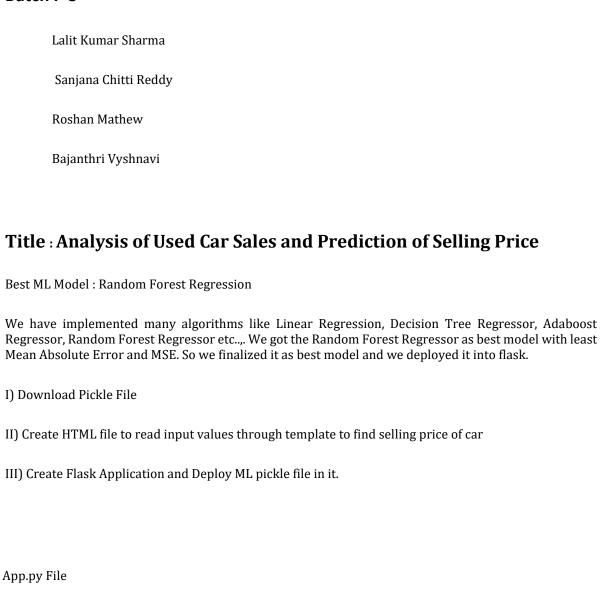
Batch F-3



HTML File:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <div style="color:rgb(16, 233, 45)">
        <form action="{{ url for('predict')}}" method="post">
            <h1>Prediction of Price of Used Cars</h1>
            <h2>What is the car model(year)</h2>
            <input id="first" name="year" type="number ">
            <h2>How many kms does car has to be driven?</h2><input id="second"
name="km driven" required="required">
            <h2>What is average mileage needed(kmpl)?</h2><input id="third"</pre>
name="AvgMileage" required="required">
            <h2>Kind of Engine CC of car Required?</h2><input id="fourth"</pre>
name="EngineCC" required="required">
            <h2>Max power of Car</h2><input id="fifth" name="Maxpower"
required="required">
            <h2>What is the Fuel type required?</h2><br><select
name="Fuel Petrol" id="Fuel" required="required">
                <option value="Petrol">Petrol</option>
                <option value="Diesel">Diesel</option>
                <option value="CNG">CNG</option>
                <option value="LPG">LPG</option>
            </select>
            <h2>What kind of seller are you looking for?</h2><br><select
name="SellerType Dealer" id="sellertype" required="required">
                <option value="Dealer">Dealer</option>
                <option value="Individual">Individual</option>
                <option value="TrustmarkDealer">TrustmarkDealer</option>
            <h2>Which type are you comfortable with?</h2><br><select
name="Transmission Manual" id="Transmission" required="required">
```

```
<option value="Manual">Manual Car</option>
              <option value="Automatic">Automatic Car</option>
           </select>
           <h2>Owner type requirement</h2><br><select name="Owner First Owner"</pre>
id="owner" required="required">
              <option value="first">one Owner</option>
              <option value="second">two owners
              <option value="third">three owners</option>
              <option value="fourth">four and above</option>
              <option value="testdrive">Test drive car</option>
           </select>
           <h3>What is requirement of seating capacity?</h3><br><select
name="Seat high" id="seats" required="required">
              <option value="normal">five seats
              <option value="medium">seven seater</option>
              <option value="high">greater than seven</option>
           </select>
           </form>
       <br><br><h3>{{ prediction text }}<h3>
   </div>
   <style>
       body {
           background-color: rgb(1, 11, 15);
           text-align: center;
           padding: 0px;
       #box {
           border-radius: 60px;
           border-color: 45px;
           border-style: solid;
```

```
font-family: cursive;
    text-align: center;
    background-color: rgb(56, 4, 124);
    font-size: medium;
    position: absolute;
   width: 700px;
    bottom: 9%;
    height: 850px;
    right: 30%;
    padding: 0px;
   margin: 0px;
   font-size: 14px;
#fuel {
   width: 99px;
    height: 43px;
   text-align: center;
   border-radius: 14px;
   font-size: 18px;
#fuel:hover {
    background-color: rgb(24, 139, 233);
}
#sellertype {
   width: 99px;
   height: 43px;
   text-align: center;
    border-radius: 14px;
   font-size: 18px;
#sellertype:hover {
    background-color: rgb(240, 17, 84);
#Transmission {
   width: 99px;
   height: 43px;
   text-align: center;
   border-radius: 14px;
   font-size: 18px;
```

```
#Transmission:hover {
    background-color: coral;
#owner {
   width: 99px;
    height: 43px;
   text-align: center;
   border-radius: 14px;
   font-size: 18px;
#owner:hover {
    background-color: coral;
#seats {
   width: 99px;
    height: 43px;
   text-align: center;
    border-radius: 14px;
   font-size: 18px;
#seats:hover {
    background-color: rgb(27, 240, 8);
#sub {
   width: 120px;
    height: 43px;
    text-align: center;
   border-radius: 14px;
   font-size: 18px;
#sub:hover {
    background-color: darkcyan;
#first {
    border-radius: 14px;
    height: 25px;
   font-size: 20px;
   text-align: center;
```

```
#second {
            border-radius: 14px;
            height: 25px;
            font-size: 20px;
           text-align: center;
        #third {
            border-radius: 14px;
            height: 25px;
           font-size: 20px;
            text-align: center;
        #fourth {
            border-radius: 14px;
            height: 25px;
            font-size: 20px;
           text-align: center;
        #fifth {
            border-radius: 14px;
            height: 25px;
            font-size: 20px;
            text-align: center;
    </style>
</body>
</html>
```

Flask(app.py):

```
from flask import Flask, render_template, request
import jsonify
import requests
import pickle
import numpy as np
import sklearn
from sklearn.preprocessing import StandardScaler
app = Flask(__name__)
model = pickle.load(open('random_forest_regression_model.pkl', 'rb'))
@app.route('/',methods=['GET'])
def Home():
    return render template('index.html')
```

```
standard_to = StandardScaler()
@app.route("/predict", methods=['POST'])
def predict():
    if request.method == 'POST':
        year = int(request.form['year'])
        km_driven=float(request.form['km_driven'])
        AvgMileage=float(request.form['AvgMileage'])
        EngineCC=int(request.form['EngineCC'])
        MaxPower=float(request.form['Maxpower'])
        Fuel_Petrol=request.form['Fuel_Petrol']
        if(Fuel_Petrol=='Petrol'):
                Fuel CNG=0
                Fuel Diesel=0
                Fuel LPG=0
                Fuel_Petrol=1
        elif(Fuel_Petrol=='Diesel'):
                Fuel CNG=0
                Fuel Diesel=1
                Fuel LPG=0
                Fuel_Petrol=0
        elif(Fuel Petrol=='CNG'):
                Fuel_CNG=1
                Fuel Diesel=0
                Fuel LPG=0
```

```
Fuel_Petrol=0
else:
        Fuel CNG=0
        Fuel Diesel=0
        Fuel LPG=1
        Fuel Petrol=0
SellerType_Dealer=request.form['SellerType_Dealer']
if(SellerType Dealer=='Dealer'):
        SellerType_Dealer=1
        SellerType Individual=0
        SellerType TrustmarkDealer=0
elif(SellerType_Dealer=='Individual'):
        SellerType Dealer=0
        SellerType_Individual=1
        SellerType_TrustmarkDealer=0
else:
         SellerType_Dealer=0
         SellerType Individual=0
         SellerType_TrustmarkDealer=1
Transmission_Manual=request.form['Transmission_Manual']
if(Transmission_Manual=='Manual'):
    Transmission Automatic=0
    Transmission_Manual=1
else:
    Transmission_Automatic=1
    Transmission_Manual=0
Owner_FirstOwner=request.form['Owner_First Owner']
if(Owner FirstOwner=='first'):
       Owner_FirstOwner=1
       Owner FourthAboveOwner=0
       Owner SecondOwner=0
       Owner_TestDriveCar=0
       Owner ThirdOwner=0
elif(Owner_FirstOwner=='second'):
       Owner FirstOwner=0
       Owner_FourthAboveOwner=0
       Owner SecondOwner=1
       Owner TestDriveCar=0
       Owner_ThirdOwner=0
elif(Owner_FirstOwner=='third'):
       Owner_FirstOwner=0
       Owner FourthAboveOwner=0
```

```
Owner SecondOwner=0
               Owner TestDriveCar=0
               Owner ThirdOwner=1
        elif(Owner FirstOwner=='forth'):
               Owner_FirstOwner=0
               Owner FourthAboveOwner=1
               Owner SecondOwner=0
               Owner TestDriveCar=0
               Owner ThirdOwner=0
        else:
               Owner FirstOwner=0
               Owner FourthAboveOwner=0
               Owner SecondOwner=0
               Owner_TestDriveCar=1
               Owner ThirdOwner=0
      Seat high=request.form['Seat high']
        if(Seat_high=='high'):
            Seat high=1
            Seat middle=0
            Seat normal=0
        elif(Seat high=='medium'):
            Seat_high=0
            Seat middle=1
            Seat normal=0
        else:
            Seat high=0
            Seat middle=0
            Seat normal=1
        prediction=model.predict([[year,km driven,AvgMileage,EngineCC,MaxPower,Fu
el_CNG,Fuel_Diesel,Fuel_LPG,Fuel_Petrol,SellerType_Dealer,SellerType_Individual,S
ellerType TrustmarkDealer,Transmission Automatic,Transmission Manual,Owner FirstO
wner,Owner_FourthAboveOwner,Owner_SecondOwner,Owner_TestDriveCar,Owner_ThirdOwner
,Seat_high,Seat_middle,Seat_normal]])
        output=round(prediction[0],2)
        if output<0:
            return render template('index.html',prediction texts="Sorry there are
no cars with the required features")
            return render_template('index.html',prediction_text="You Selling
price of car is: {}".format(output))
        return render_template('index.html')
if __name__=="__main__":
  app.run(debug=True)
```

Final Output:

