Car Resales Price Prediction

Date	09-11-2022
Team ID	PNT2022TMID42617
Project Name	Car Resale Value Prediction

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Application Building:
Build The Python Flask App
#Importing required libraries
import pandas as pd import
numpy as np
from flask import Flask, render_template, Response, request import
pickle
from sklearn.preprocessing import LabelEncoder import
pickle
#Load the model and initialize Flask app
app=Flask(__name__) filename='resale_model.sav'
model rand=pickle.load(open(filename, 'rb'))
#Configure app.py to fetch the parameter values from the ui,and return the prediction
@app.route('/') def
index():
       return render template('resaleintro.html')
@app.route('/predict') def
predict():
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@app.route(y_predict', methods=['GET', 'POST']) def
y_predict():
regyear = int (request.form['regyear'])
powerps = float(request.form['powerps'])
kms = float(request.form['kms'])
regmonth int(request.form.get('regmonth'))
gearbox = request.form['gearbox']
damage request.form['dam']
model request.form.get('modeltype') brand= request.form.get('brand')
fuelType = request.form.get('fuel') vehicletype= request.form.get('vehicletype')
new row("yearOfRegistration':regyear, 'powerPS':powerps, 'kilometer':kms,
monthofRegistration': regmonth, gearbox gearbox, 'notRepairedDamage': damage,
'model':model, 'brand':brand, 'fuelType': fuelType,
'vehicleType': vehicletype)
print(new row)
new_df = pd.DataFrame(columns =['vehicleType', 'yearOfRegistration', 'gearbox'', 'powerPS', 'model',
'kilometer', 'monthofRegistration', 'fuelTypek, 'brand', 'notRepairedDamage'])
new_df= new_df.append(new row, ignore_index= True)
labels = ['gearbox', 'notRepairedDamage', 'model', 'brand', 'fuelType', 'vehicleType']
mapper = \{ \}
for i in labels:
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mapper[i] = LabelEncoder()
mapper[i].classes_= np.load(str('classes'+i+.npy'))

    tr= mapper[i].fit_transform(new_df[i])
    new_df.loc[:, i +'_labels'] = pd.Series (tr, index-new_df.index)

labeled = new_df[ ['yearOfRegistration' ,"powerPS' 'kilometer' "monthOfRegistration']+[x+'_labels' for x in labels]]

X=labeled.values print(X)
y_prediction=model.rand.
predict(X)
print(y_prediction)
return render_template('resalespredict.html',ypred = 'The resale value predicted is
{:.2f}$'.format(y_prediction[0]))

Run the app

If __name__ == '__main':
    app.run(host='localhost',debug = True, threaded = False)
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