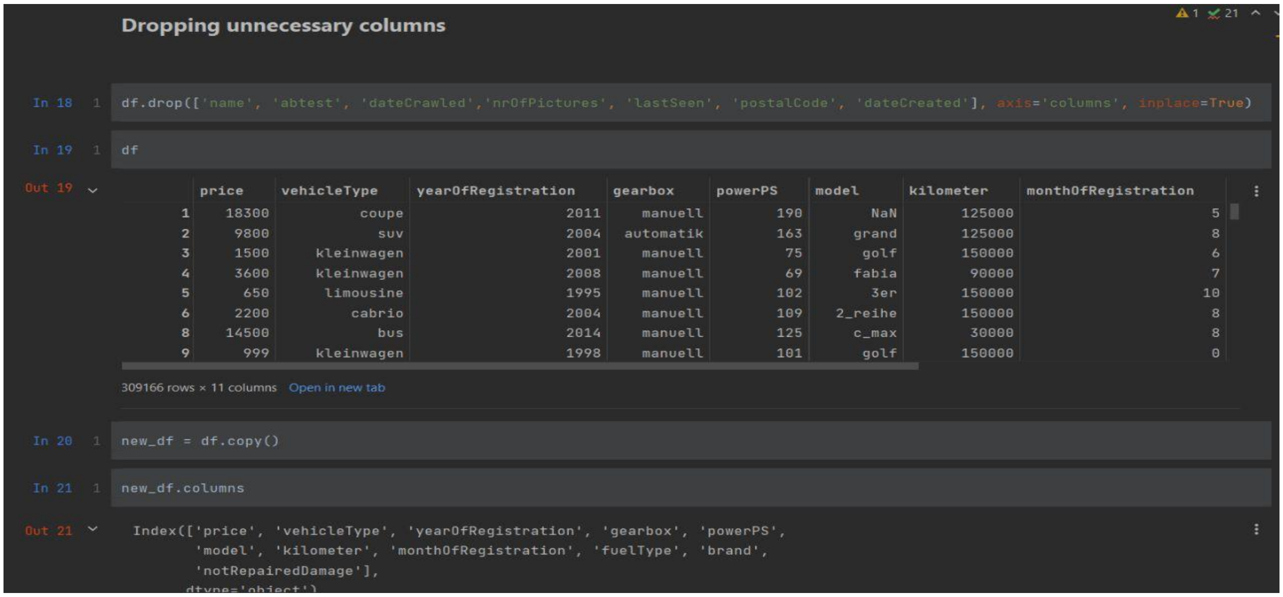
APPLICATION BUILDING

EXECUTE AND TEST YOUR MODEL

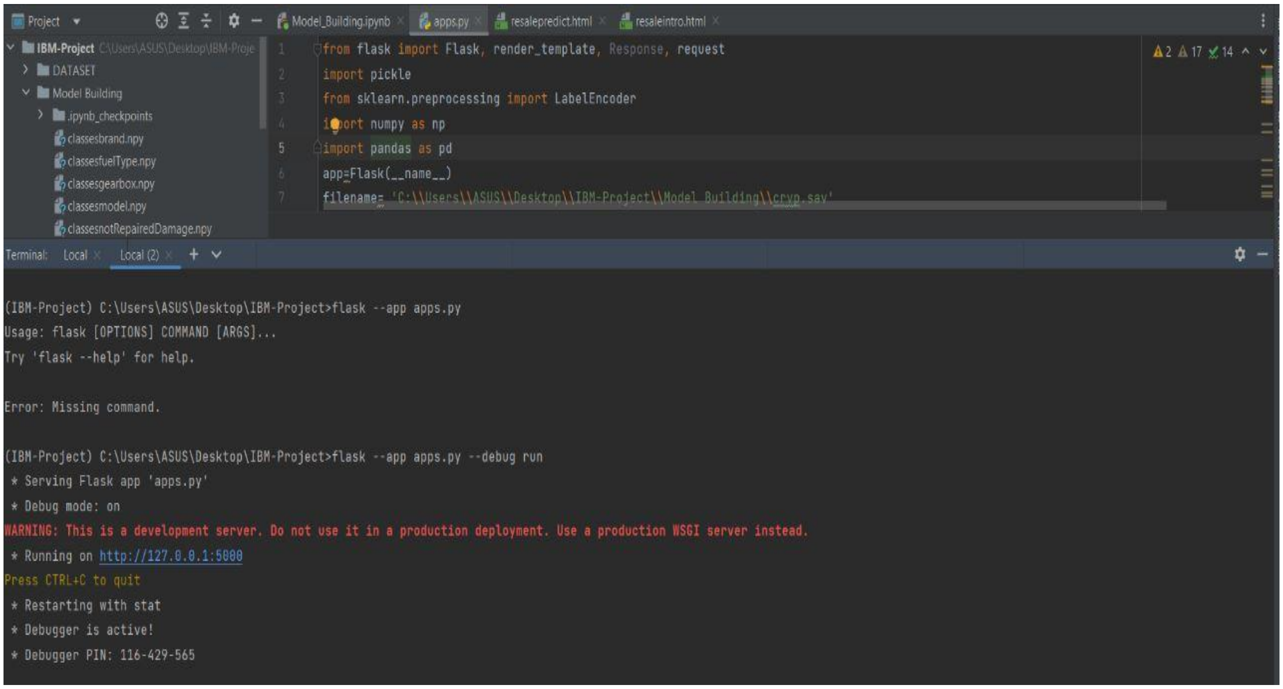
1) Execution



Dropping unnecessary columns

```
In 18   df.drop(['name', 'abtest', 'dateCrawled','nrOfPictures', 'lastSeen', 'postalCode', 'dateCreated'], axis='columns', inplace=True)

In 19   df

Out 19
       price  vehicleType  yearOfRegistration   gearbox  powerPS    model  kilometer  monthOfRegistration
    1  18300        coupe                2011   manuell      190      NaN     125000                    5
    2   9800          suv                2004 automatik      163    grand     125000                    8
    3   1500   kleinwagen                2001   manuell       75     golf     150000                    6
    4   3600   kleinwagen                2008   manuell       69    fabia      90000                    7
    5    650    limousine                1995   manuell      102      3er     150000                   10
    6   2200       cabrio                2004   manuell      109  2_reihe     150000                    8
    8  14500          bus                2014   manuell      125    c_max      30000                    8
    9    999   kleinwagen                1998   manuell      101     golf     150000                    0

309166 rows × 11 columns   Open in new tab

In 20   new_df = df.copy()

In 21   new_df.columns

Out 21
 Index(['price', 'vehicleType', 'yearOfRegistration', 'gearbox', 'powerPS',
        'model', 'kilometer', 'monthOfRegistration', 'fuelType', 'brand',
        'notRepairedDamage'],
       dtype='object')
```

Model Building

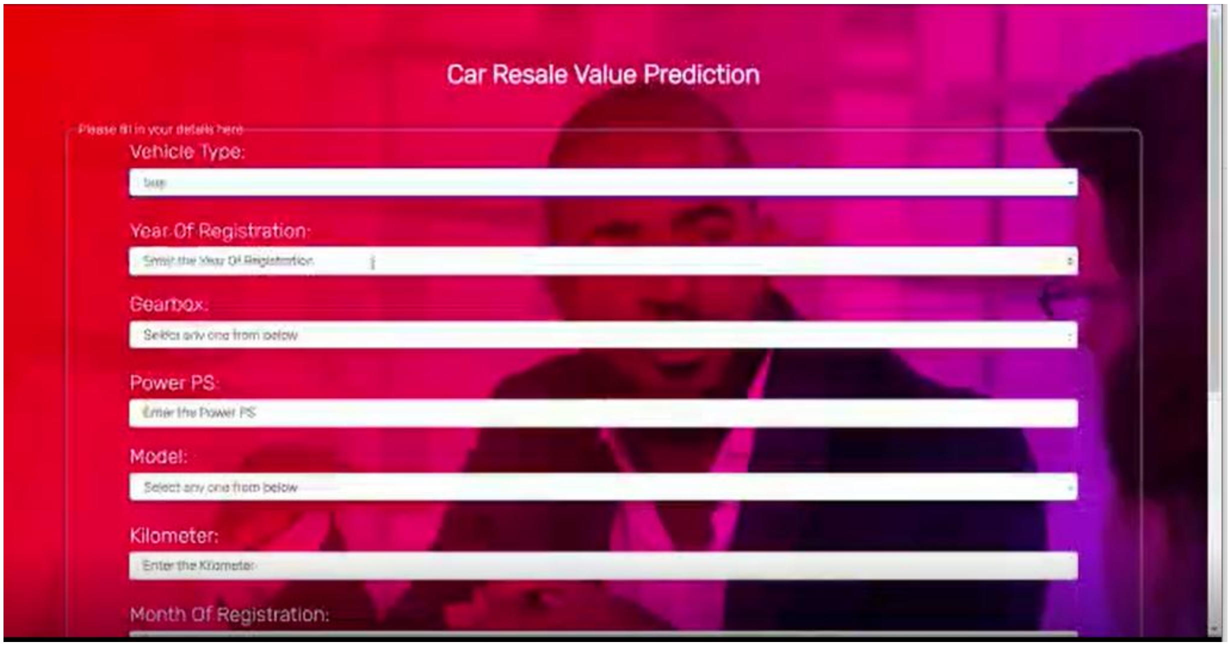


```python
from flask import Flask, render_template, Response, request
import pickle
from sklearn.preprocessing import LabelEncoder
import numpy as np
import pandas as pd
app=Flask(__name__)
filename= 'C:\\Users\\ASUS\\Desktop\\IBM-Project\\Model Building\\cryp.sav'
```

```
(IBM-Project) C:\Users\ASUS\Desktop\IBM-Project>flask --app apps.py
Usage: flask [OPTIONS] COMMAND [ARGS]...
Try 'flask --help' for help.

Error: Missing command.

(IBM-Project) C:\Users\ASUS\Desktop\IBM-Project>flask --app apps.py --debug run
 * Serving Flask app 'apps.py'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 116-429-565
```

Flask execution

2) MODEL TESTING



Car Resale Value Prediction

Please fill in your details here

Vehicle Type:

bus

Year Of Registration:

Enter the Year Of Registration

Gearbox:

Select any one from below

Power PS:

Enter the Power PS

Model:

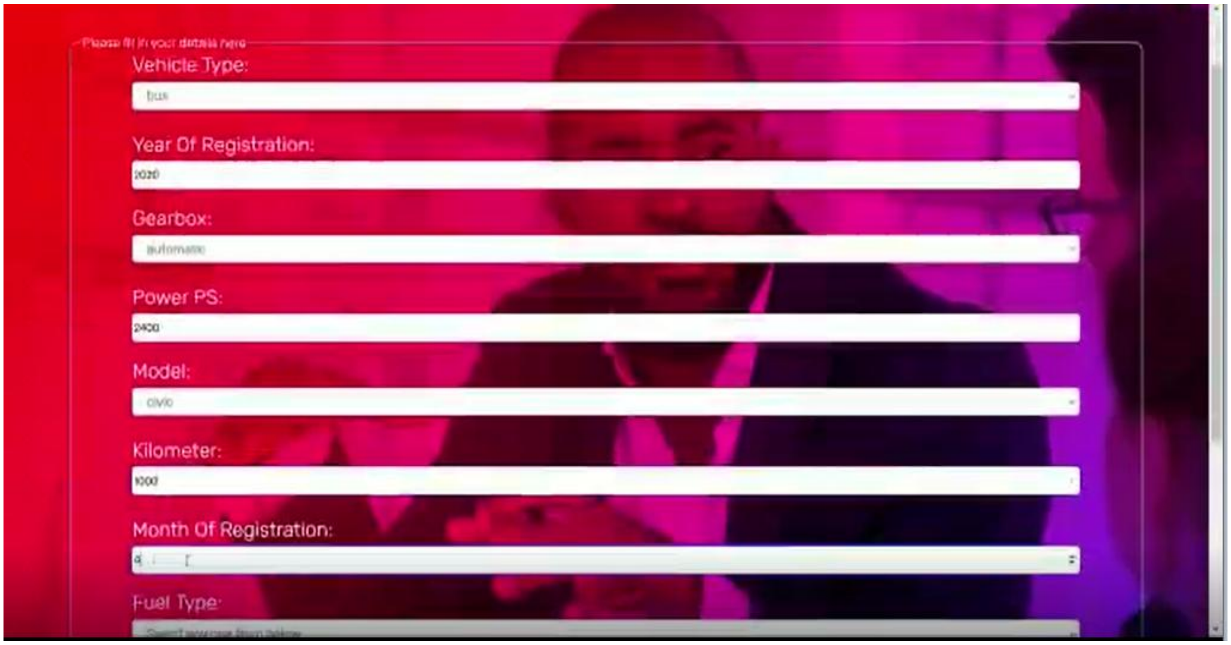
Select any one from below

Kilometer:

Enter the Kilometer

Month Of Registration:

Home Page



Please fill in your details here

Vehicle Type:

bus

Year Of Registration:

2020

Gearbox:

automatic

Power PS:

2400

Model:

civic

Kilometer:

1000

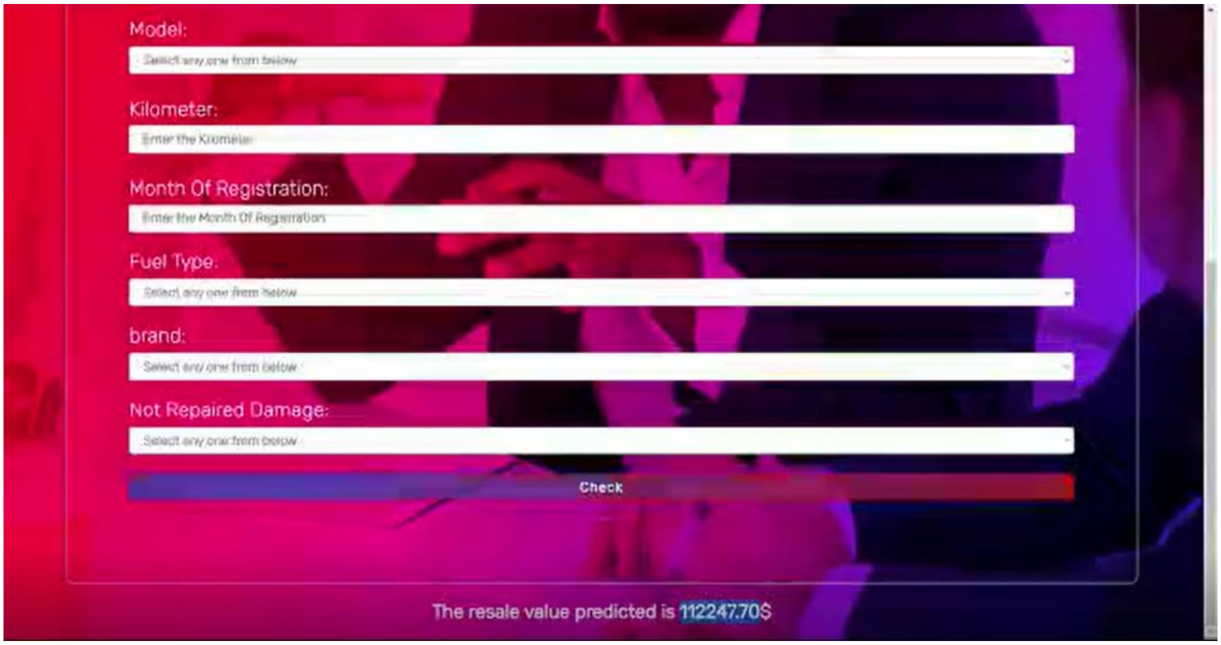
Month Of Registration:

4

Fuel Type:

Select any one from below

Data Entry Page



Model:

Select any one from below

Kilometer:

Enter the Kilometer

Month Of Registration:

Enter the Month Of Registration

Fuel Type:

Select any one from below

brand:

Select any one from below

Not Repaired Damage:

Select any one from below

The resale value predicted is 112247.70$

Car Resale Value Display Page