## **BUILD THE PYTHON FLASK APP**

Team ID	PNT2022TMID16353
Project Name	Car Resale value Prediction

## BUILD THE PYTHON FLASK APP

```
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
app=Flask(__name___,template_folder='../IBM')
filename = 'resale model.sav'
model_rand = pickle.load(open(filename, 'rb'))
@app.route('/')
def index():
    return render_template('index.html')
@app.route('/resaleintro.html')
def p():
    return render_template('resaleintro.html')
@app.route('/predict')
def predict():
    return render_template('resalepredict.html')
@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('model_type')
   brand = request.form.get('brand')
    fuelType = request.form.get('fuel')
   vehicletype= request.form.get('vehicletype')
    new_row =
{'yearOfRegistration':regyear,'powerPS':powerps,'kilometer':kms,'monthOfRegistration':regm
onth,'gearbox':gearbox,'notRepairedDamage':damage,'model':model,'brand':brand,'fuelType':f
uelType, 'vehicleType':vehicletype}
    print(new_row)
```

```
new_df =
pd.DataFrame(columns=['vehicleType','yearOfRegistration','gearbox','powerPS','model','kilo
meter','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)
       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('resalepredict.html',ypred="{:.2f}".format(y_prediction[0]))
if __name__ == '__main__':
    app.run(host='Localhost',debug=True,threaded=False)
base) PS C:\Users\SUGARANJAN> cd Desktop
(base) PS C:\Users\SUGARANJAN\Desktop> cd IBM
(base) PS C:\Users\SUGARANJAN\Desktop\IBM> python App.py
 * Serving Flask app "App" (lazy loading)
  Environment: production
  Use a production WSGI server instead.
 * Debug mode: on
 * Restarting with watchdog (windowsapi)
 * Debugger is active!
  Debugger PIN: 363-377-968
  Running on http://Localhost:5000/ (Press CTRL+C to quit)
```