Practical-5

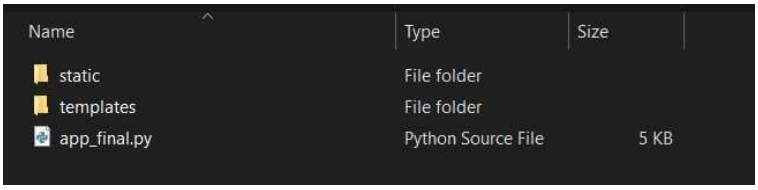
Deployment of ML project using Flask.

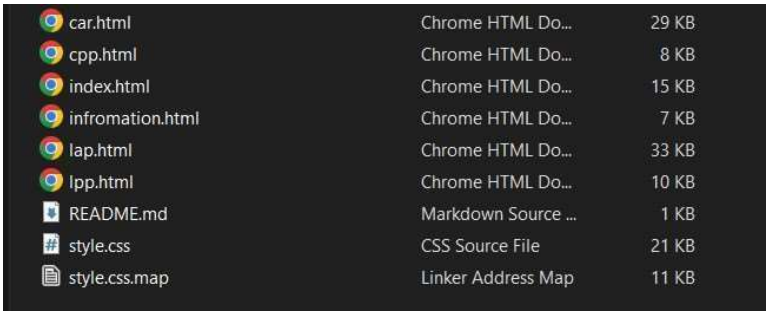
Task 1: Install the required libraries

pip install Flask

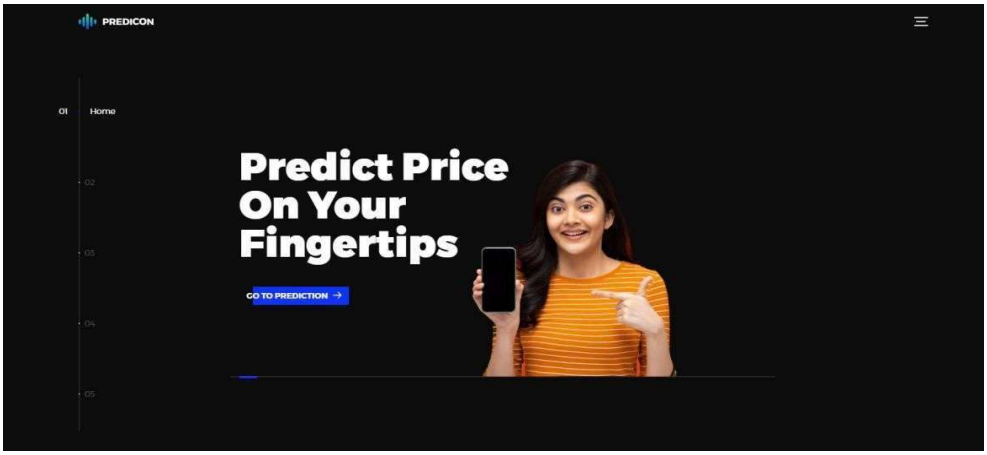
Task 2: Follow the steps described in theory material to deploy the model using Flask. Run the flask application to execute the deployed model.

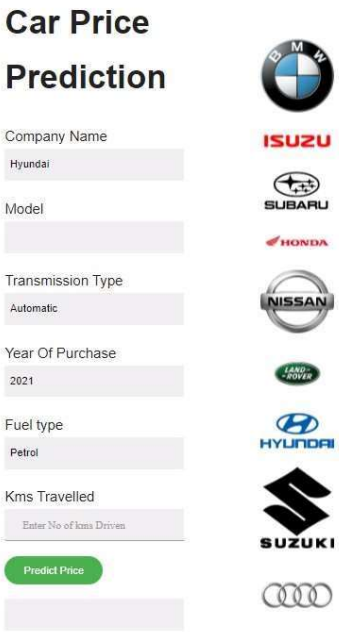
Step :1 Create Templates



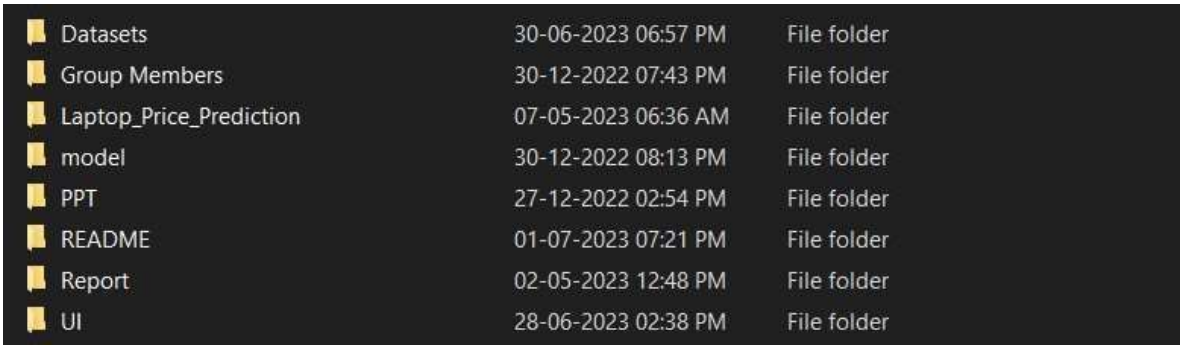


User Interface :

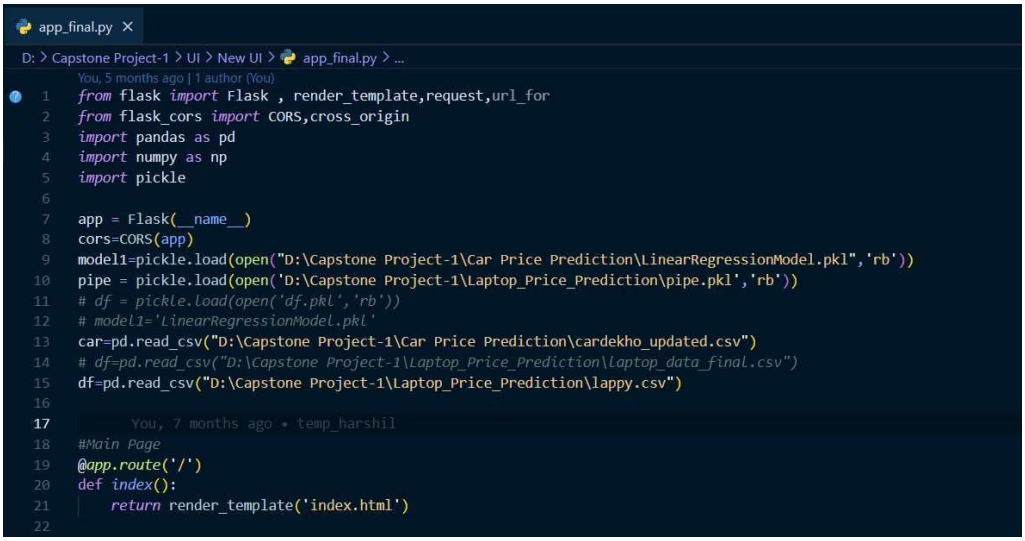




Step: 2 Import the Model, Dataset, and Scalar objects into the project folder.



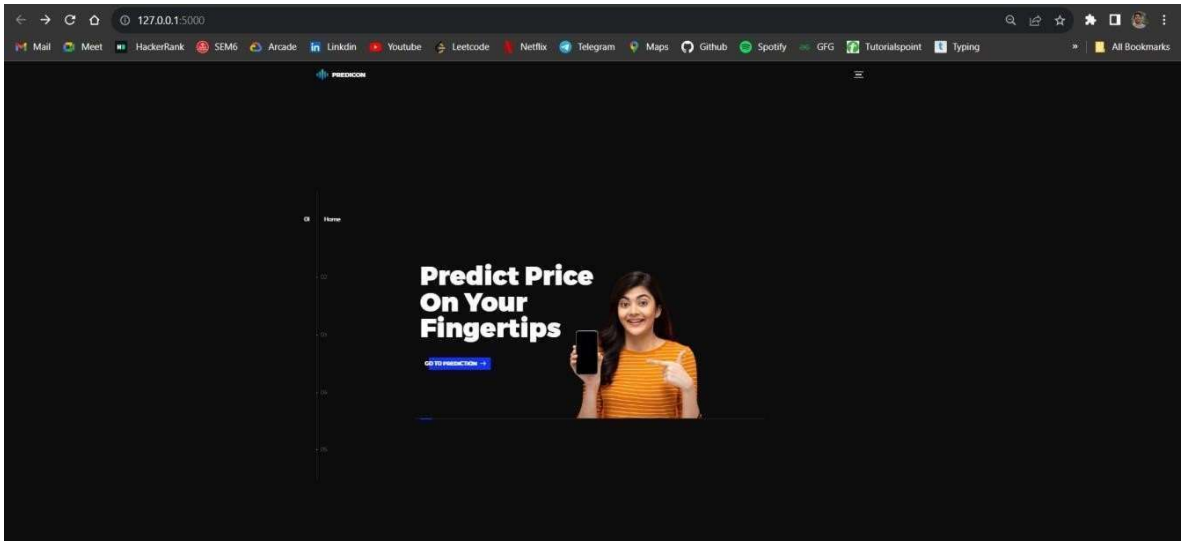
Step: 3 Create the app.py file to serve the deployment



Code : app.py

```
from flask import Flask , render_template,request,url_for
from flask_cors import CORS,cross_origin
import pandas as pd import numpy as np
import pickle


app = Flask(__name__) cors=CORS(app)
model1=pickle.load(open("D:\Capstone Project-1\Car Price
Prediction\LinearRegressionModel.pkl",'rb'))

car=pd.read_csv("D:\Capstone Project-1\Car Price Prediction\cardekho_updated.csv")

#Main Page
@app.route('/') def index():     return
render_template('index.html')


#Car Price Prediction
@app.route('/cpp') def
cpp():
   #model=sorted(car['full_name'].unique())
car_models=sorted(car['full_name'].unique())     companies=(car['company'].unique())
   transmission_type=sorted(car['transmission_type'].unique())
year=sorted(car['year'].unique(),reverse=True)
fuel_type=car['fuel_type'].unique()     km_driven=(request.form.get('km_driven'))

   return
render_template('car.html',companies=companies,car_models=car_models,transmission_type=trans
mission_type, year=year, fuel_type=fuel_type,km_driven=km_driven)

if __name__=="__main__":
app.run(debug=True)
```

Output :


127.0.0.1:5000
Predict Price
On Your
Fingertips


Car Price
Prediction
Company Name
Maruti
Model
Maruti A Star
Transmission Type
Manual
Year Of Purchase
2011
Fuel type
Petrol
Kms Travelled
80000
Predict Price
Predicted Price : ₹76396.28
BMW
ISUZU
SUBARU
HONDA
NISSAN
LAND ROVER
HYUNDAI
SUZUKI
Ford