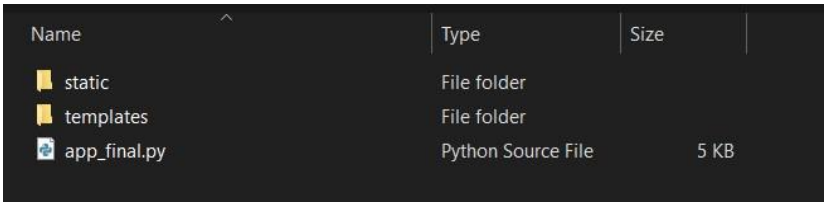
Practical-5
Deployment of ML project using Flask.

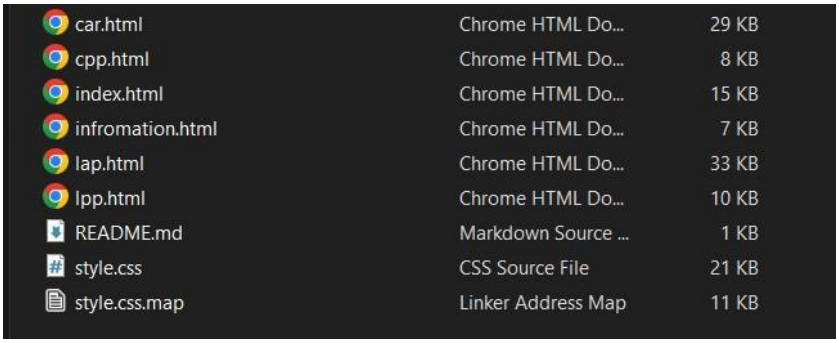
Task 1: Install the required libraries

pip install Flask

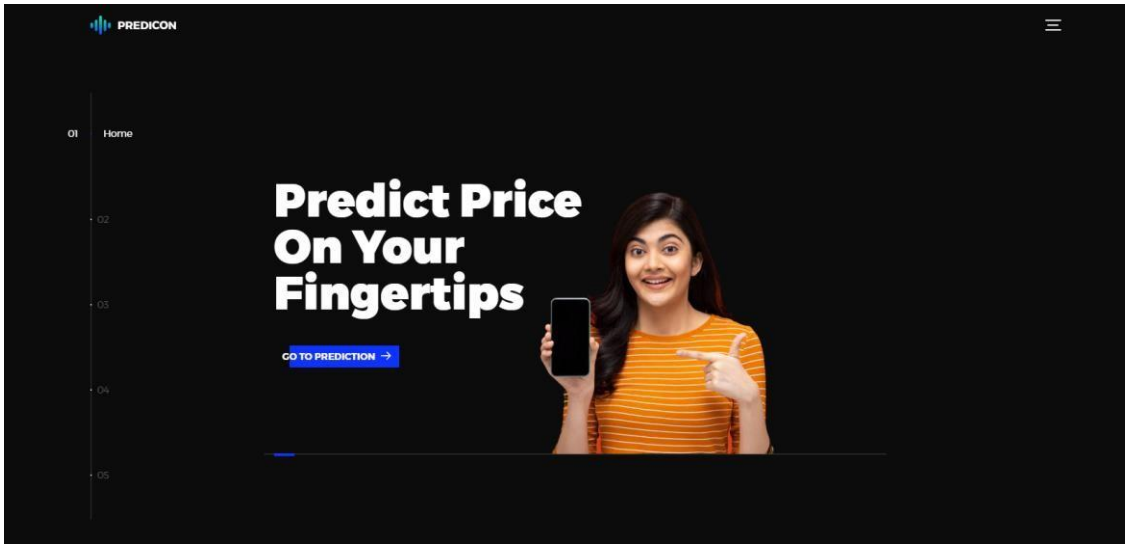
Task 2: Follow the steps described in theory material to deploy the model using Flask. Run the flask application to execute the deployed model.

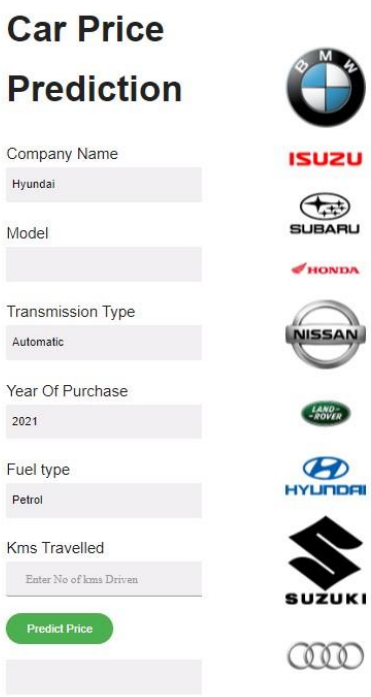
Step :1 Create Templates



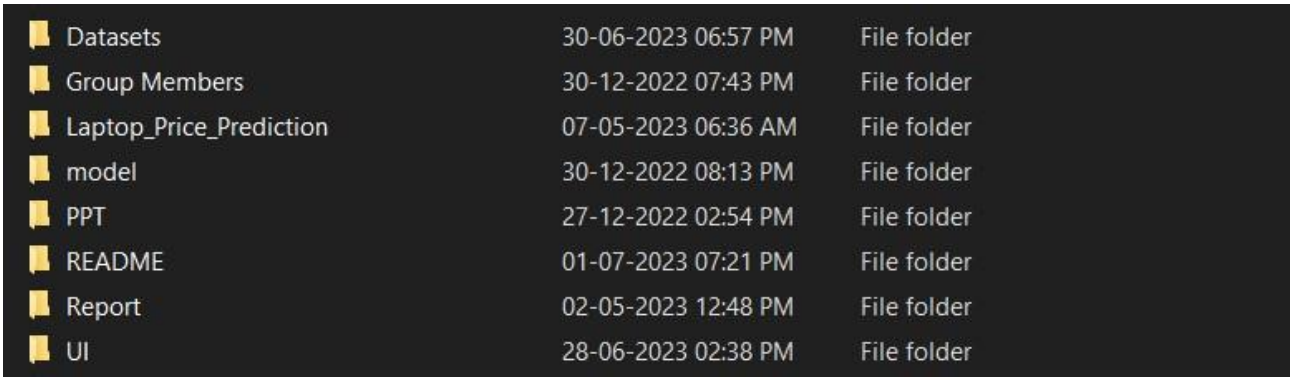


User Interface :





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



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

app_final.py

D: > Capstone Project-1 > UI > New UI > app_final.py > ...

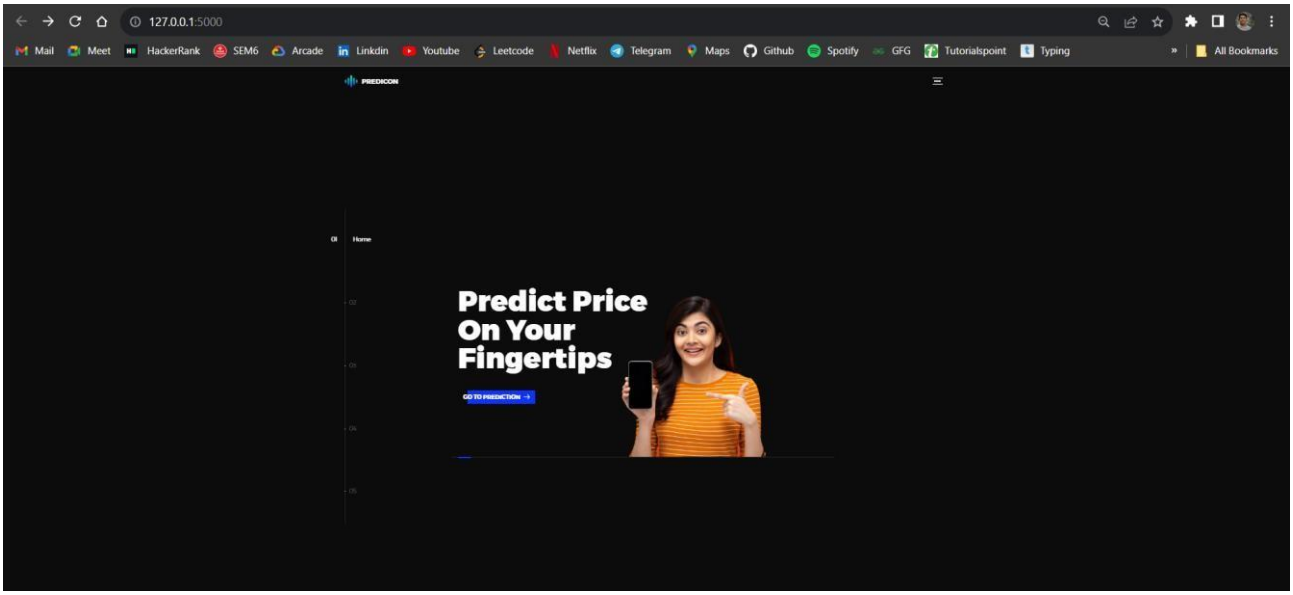
You, 5 months ago | 1 author (You)

```python
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'))
pipe = pickle.load(open('D:\Capstone Project-1\Laptop_Price_Prediction\pipe.pkl','rb'))
# df = pickle.load(open('df.pkl','rb'))
# model1='LinearRegressionModel.pkl'
car=pd.read_csv("D:\Capstone Project-1\Car Price Prediction\cardekho_updated.csv")
# df=pd.read_csv("D:\Capstone Project-1\Laptop_Price_Prediction\laptop_data_final.csv")
df=pd.read_csv("D:\Capstone Project-1\Laptop_Price_Prediction\lappy.csv")

      You, 7 months ago • temp_harshil
#Main Page
@app.route('/')
def index():
    return render_template('index.html')

```

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 :



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