

Practical-5

Deployment of ML project using Flask.

Task 1: Install the required libraries

```
pip install Flask
```

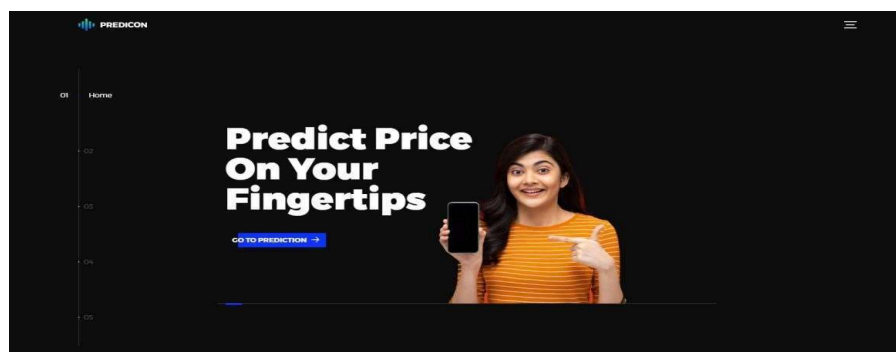
Task 2: Follow the steps described in theory material to deploy the model using Flask. Run the flask application to execute the deployed model.

Step :1 Create Templates

Name	Type	Size
static	File folder	
templates	File folder	
app_final.py	Python Source File	5 KB

car.html	Chrome HTML Do...	29 KB
cpp.html	Chrome HTML Do...	8 KB
index.html	Chrome HTML Do...	15 KB
infomation.html	Chrome HTML Do...	7 KB
lap.html	Chrome HTML Do...	33 KB
lpp.html	Chrome HTML Do...	10 KB
README.md	Markdown Source ...	1 KB
style.css	CSS Source File	21 KB
style.css.map	Linker Address Map	11 KB

User Interface :



Car Price Prediction

Company Name










Model

Transmission Type









Year Of Purchase

Fuel type

Kms Travelled

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

	Datasets	30-06-2023 06:57 PM	File folder
	Group Members	30-12-2022 07:43 PM	File folder
	Laptop_Price_Prediction	07-05-2023 06:36 AM	File folder
	model	30-12-2022 08:13 PM	File folder
	PPT	27-12-2022 02:54 PM	File folder
	README	01-07-2023 07:21 PM	File folder
	Report	02-05-2023 12:48 PM	File folder
	UI	28-06-2023 02:38 PM	File folder

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

```

app_final.py X
D:\Capstone Project-1 > UI > New UI > app_final.py > ...
You, 5 months ago | 1 author (You)
1 from flask import Flask , render_template,request,url_for
2 from flask_cors import CORS,cross_origin
3 import pandas as pd
4 import numpy as np
5 import pickle
6
7 app = Flask(__name__)
8 cors=CORS(app)
9 model=pickle.load(open("D:\Capstone Project-1\Car Price Prediction\LinearRegressionModel.pkl","rb"))
10 pipe = pickle.load(open("D:\Capstone Project-1\Laptop_Price_Prediction\pipe.pkl","rb"))
11 # df = pickle.load(open("df.pkl","rb"))
12 # model1=LinearRegressionModel.pkl
13 car=pd.read_csv("D:\Capstone Project-1\Car Price Prediction\cardekho_updated.csv")
14 # df=pd.read_csv("D:\Capstone Project-1\Laptop_Price_Prediction\laptop_data_final.csv")
15 df=pd.read_csv("D:\Capstone Project-1\Laptop_Price_Prediction\lappy.csv")
16
17 You, 7 months ago • temp_harshil
18 #Main Page
19 @app.route('/')
20 def index():
21     return render_template('index.html')
22

```

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)
model=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')

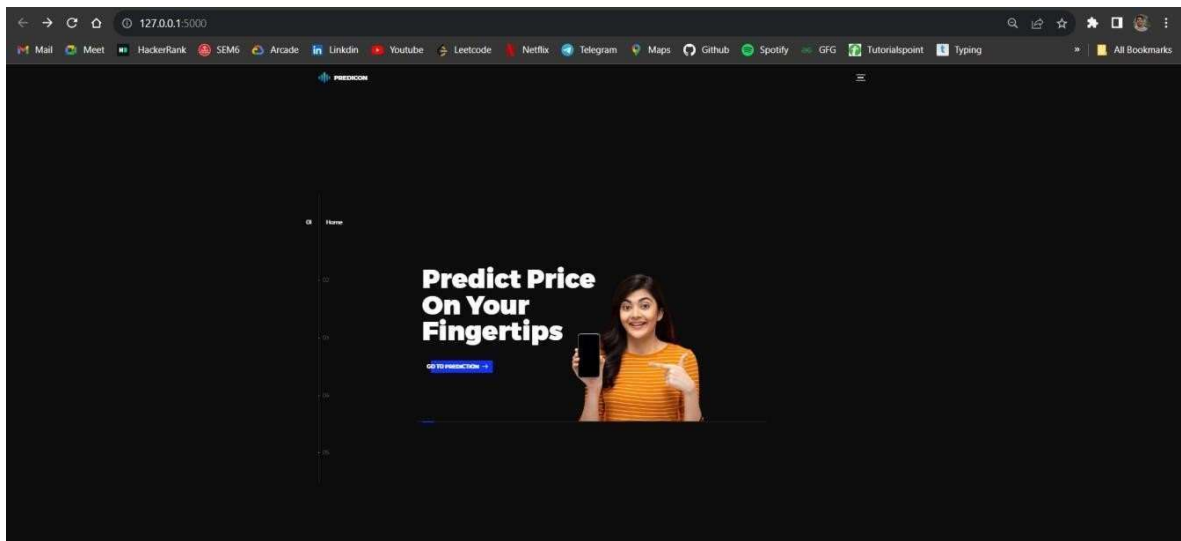
#Car Price Prediction
@app.route('/cpp') def
cpp():
    #model=sorted(car['full_name'].unique())
    car_models=sorted(car['full_name'].unique())    companies=(car['company'].unique())
    transmission_type=sorted(car['transmission_type'].unique())
    year=sorted(car['year'].unique(),reverse=True)
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

MLOps
Output :

CEITA(7A-3)



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



ISUZU



HONDA



20012531005

MANEESH KUMAR