MLOps CEITA(7A-3)

### Practical-5

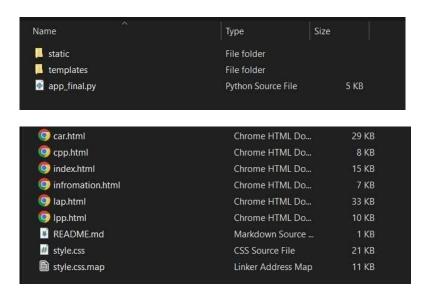
# Deployment of ML project using Flask.

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:

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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

MLOps CEITA(7A-3)

```
e app_final.py ×
D: > Capstone Project-1 > UI > New UI > 👸 app_final.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'))
      pipe = pickle.load(open('D:\Capstone Project-1\Laptop_Price_Prediction\pipe.pkl', 'rb'))
      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\lappy.csv")
       @app.route('/')
       def index():
           return render_template('index.html')
```

Code: app.py

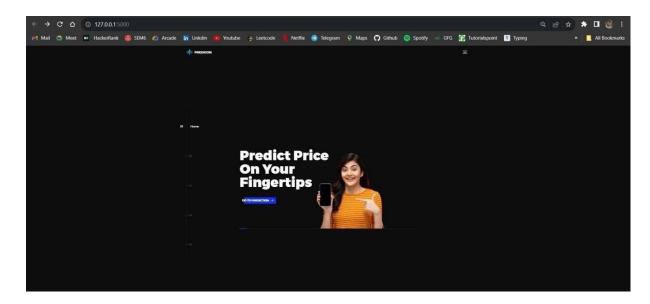
```
from flask import Flask, render_template,request,url_for from flask_cors import CORS,cross_origin import pandas as pd import numpy as np import pickle
```

```
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)

MLOps CEITA(7A-3) if \_\_name\_\_=="\_\_main\_\_": app.run(debug=True)

#### Output:



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## **Car Price** Prediction



### Company Name Maruti Model Maruti A Star Transmission Type Manual Year Of Purchase 2011 Fuel type Petrol

Kms Travelled 80000

Predicted Price : ₹76396.28





















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