


EXECUTE AND TEST MODEL

Execute the python code and after the module is running, open the localhost and click on the button to check the prediction.

```
1 import pandas as pd
2 import numpy as np
3 from flask import Flask, render_template, request
4 import requests
5
6 # NOTE: you must manually set API_KEY below using information retrieved from your IBM Cloud account.
7 API_KEY = "SvFZ1utanucs0TzZlpy_2eM6I8WWpT7BXpM2t0hBiCA2"
8 token_response = requests.post('https://iam.cloud.ibm.com/identity/token',
9                                data={"apikey": API_KEY, "grant_type": 'urn:ibm:params:oauth:grant-type:apikey'})
10 mltoken = token_response.json()["access_token"]
11 header = {'Content-Type': 'application/json', 'Authorization': 'Bearer ' + mltoken}
12
13 app = Flask(__name__)
14 car = pd.read_csv('Cleaned_datasets.csv')
15
16
17 @app.route('/')
18 def index():
19     companies = sorted(car['Brands'].unique())
20     car_models = sorted(car['Car_names'].unique())
21     year = sorted(car['year'].unique(), reverse=True)
22     fuel_type = car['fuel_type'].unique()
23
24     companies.insert(0, 'Select Company')
25     return render_template('index.html', companies=companies, car_models=car_models, years=year, fuel_types=fuel_type)
26
27
28 @app.route('/predict', methods=['POST'])
29 def predict():
30     company = request.form.get('company')
```

 You are using the Flask framework
PyCharm Professional Edition has special s

```

24     companies.insert(0, 'Select Company')
25     return render_template('index.html', companies=companies, car_models=car_models, years=year, fuel_types=fuel_type)
26
27
28 @app.route('/predict', methods=['POST'])
29 def predict():
30     company = request.form.get('company')
31
32     car_model = request.form.get('car_models')
33     year = request.form.get('year')
34     fuel_type = request.form.get('fuel_type')
35     kms_driven = request.form.get('kilo_driven')
36
37     # NOTE: manually define and pass the array(s) of values to be scored in the next line
38
39     payload_scoring = {"input_data": [{"fields": ['Car_names', 'Brands', 'year', 'kms_driven', 'fuel_type'],
40                                         "values": [[car_model, company, year, kms_driven, fuel_type]]}]}
41
42     response_scoring = requests.post(
43         'https://us-south.ml.cloud.ibm.com/ml/v4/deployments/3d15cfbe-4005-4b16-a0e4-2b356ba00b60/predictions?version=2022-11-17',
44         json=payload_scoring, headers={'Authorization': 'Bearer ' + mltoken}).json()
45     prediction = response_scoring['predictions'][0]['values']
46
47     return str(np.round(prediction[0], 2))
48
49
50 if __name__ == '__main__':
51     app.run()
52

```

You are using the Flask framework

This is the home page of the application

Hi, Let's check the price of your resale car!!

Hola! Give the valid info :

Select the company:

Chevrolet

Select the model:

Chevrolet Beat LS

Select Year of Purchase:

2019

Select the Fuel Type:

Diesel

Enter the Number of Kilometres that the car has travelled:

45000

Predict Price

Prediction: ₹[13015.27]

