## **Health Insurance Charges prediction model Deployment**

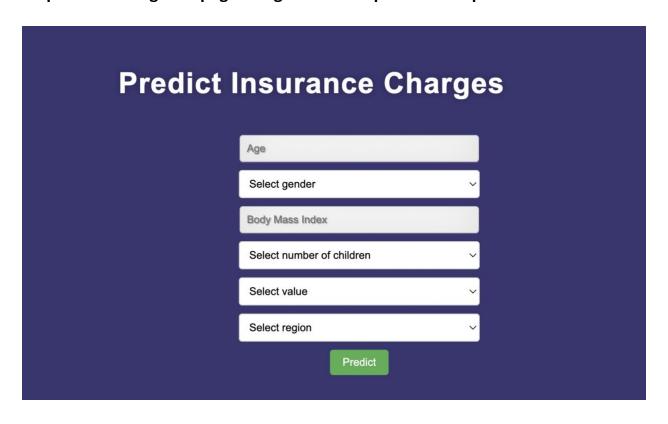
Step 1: Exploratory Analysis on the dataset

```
RangeIndex: 1338 entries, 0 to 1337
Data columns (total 6 columns):
    Column
              Non-Null Count Dtype
    age
           1338 non-null int64
1338 non-null int64
 0
 1
    sex
 2
    bmi
             1338 non-null float64
 3
    children 1338 non-null int64
    smoker 1338 non-null int64
 4
 5
    region
             1338 non-null
                             int64
dtypes: float64(1), int64(5)
memory usage: 62.8 KB
None
                    children smoker
                                     region
   age sex
               bmi
            27.900
   19
1
   18
         2 33.770
                          1
                                   2
                                           2
2
   28
         2 33.000
                           3
                                   2
                                           2
3
   33
         2 22.705
                           0
                                   2
                                           3
   32
         2 28.880
                                           3
```

Step 2: Model Deployment using Flask and pickle.

Submitted to: Data Glacier Submitted date: 28 May 2023 Ayushi Malaviya Batch Code : <u>LISUM21</u>

Step 3: Rendering web page using render template and request:



**Step 4: Predicted Charges of insurance:** 

Predicted value for a person whose:

Age = 21

Gender = Male

BMI = 32.23

Children = 1

Smoker= No

Region = southwest

Insurance charge should be \$ 4258.81

Submitted to: Data Glacier Submitted date: 28 May 2023