MODEL DEPLOYMENT ON HEROKU

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Model Deployment steps

Step1: Selecting the model

I have used the data and model that used in the deployment on Flask (Assignment of week 4)

Step2: Build the HTML for the graphic interface

The <u>index.html</u> is a file that contains the structure of the web app design and <u>AppStyle.css</u> is used to beautify the web design.

```
<!DOCTYPE html>
   <html lang="en">
   <head>
      <meta charset="UTF-8">
      <title>Insurance Web Application</title>
       <meta charset="utf-8">
         <meta name="author" content="AnikeSadia">
          <meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1, user-scalable=no">
      <link rel="stylesheet" href="static/AppStyle.css">
10
   <body>
11
12
      <div class="model_desc">
13
      <h2> Model Description </h2><br>
      This web application is designed to help users of Pink and Yellow Cab companies by providing information regarding the prices.
14
15
         The aim of this project is to predict the price charged by each company based on certain information. The application requires
16
         several input data that should be entered by the user. Finally, the predict bottom will generate the price charged based on the user data.<br/>
17
      Please enter your data:<br>
      <span class="bold yellow">Age: </span> 1 --> 70 <br>
      <span class="bold vellow">KM-Travelled: </span> 1 --> 50<br/>br>
      phoenix=11, pittsburgh=12, sacramento=13, san diego=14, seattle=15, silicon valley=16, tucson=17, washington=18<br/>br>
```

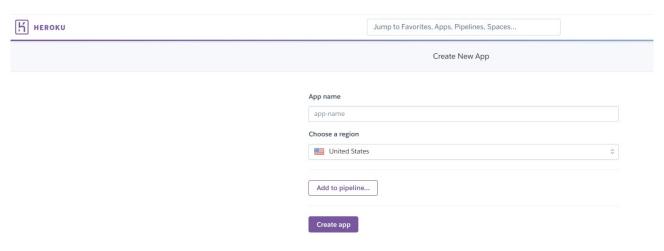
```
27
        </div>
28 <div class="data_part">
29
      <h1>PRICE CHARGED PREDICTION</h1>
      <form action="{{url_for('predict')}}" method="post">
30
31
           <input class="Input" type="text" name="A1" placeholder="Age" required/>
32
           <input class="Input" type="text" name="A2" placeholder="KM-Travelled" required/>
           <select name="comp_select2" class="Input">
34
                  {% for o in data3 %}
35
                 <option value="{{ o.CO }}">{{ o.CO }}</option>
36
                  {% endfor %}
37
               </select><br><br>
          <select name="comp_select1" class="Input">
                 {% for o in data2 %}
                 <option value="{{ o.MN }}">{{ o.MN }}</option>
                 {% endfor %}
                </select><br><br>
           <select name="comp_select" class="Input">
                 {% for o in data1 %}
46
                 <option value="{{ o.GeN }}">{{ o.GeN }}</option>
47
                 {% endfor %}
48
                </select><br><br>
49
           <select name="comp_select3" class="Input">
50
51
                 {% for o in data4 %}
52
                 <option value="{{ o.CY }}">{{ o.CY }}</option>
53
                 {% endfor %}
54
                </select><br><br>
55
56
            <button type="submit" class="pred-btn"> Predict </button>
57
58
    </form>
59
       <h3> {{prediction_text}} </h3>
60
61
    </div>
62
63
```

Step3: Build the Flask app

<u>App.py</u> is built, a flask app that used the deserialized model to accept new data and predict a the price charged.

Now the function below accepts the data and return the predicted percentage

Then, create a new app in Heroku and and push the repository to Heroku using the terminal. If everything goes well, a link will generated.



Inside the folder of your project, open terminal and implement the following code:

git init

git add.

git commit -m "first commit"

heroku git:remote -a name_of_app

git push heroku master

Finally, clicking on the link will direct you to the flask web application interface shown below.

