Data Glacier Project Report

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Reference: https://www.kaggle.com/yersever/500-person-gender-height-weight-bodymassindex

Project: https://github.com/Maqsood8/BMI-Task.git

Project Abstract

The BMI is defined as the body mass divided by the square of the body height and is expressed in units of kg/m². The height is entered in centimeters and weight in kilograms. A dataset is considered which contains height, weight, and BMIs of five hundred people. The machine learning model uses logistic regression to predict the output.

Required Data

The dataset contains information about gender, height, weight, and BMI index of individuals

Height: Integer (cm)

Weight: Integer (Kg)

Output after predicting BMI using ML

- 0 Extremely Weak
- 1 Weak
- 2 Normal
- 3 Overweight
- 4 Obesity
- 5 Extreme Obesity

1. Prediction, Pickling and Depickling - "app.py"

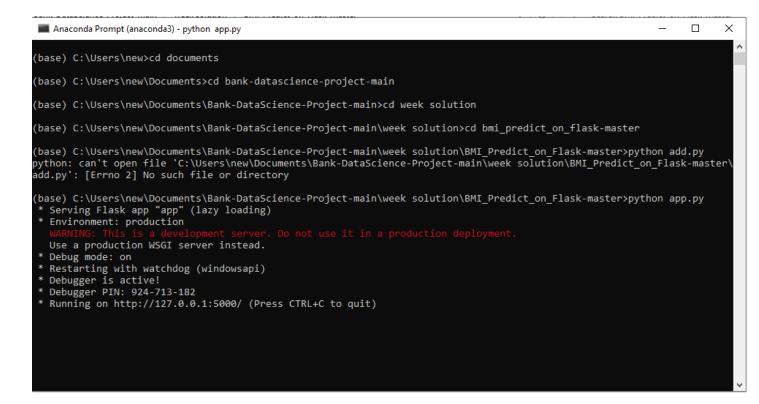
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2. HTML code (index.html)

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                                                       background-image:url("https://www.goethe.de/resources/files/jpg916/menschrobot_logo-formatkey-jpg-w983.jpg");
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                                                             <h1> using machine learning </h1>
                                                           <form action="{{ url_for('predict')}}"method="post">
                                                           <input type="text" name="Weight" placeholder="weight in kilograms" required="required" />
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```

nload pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // Don'... (today 13:20) 1.2 LF UTF-8 4 spaces Python 3.9 (pythonProject)

3. Executing the app.py file anaconda navigator



Output - http://127.0.0.1.5000/

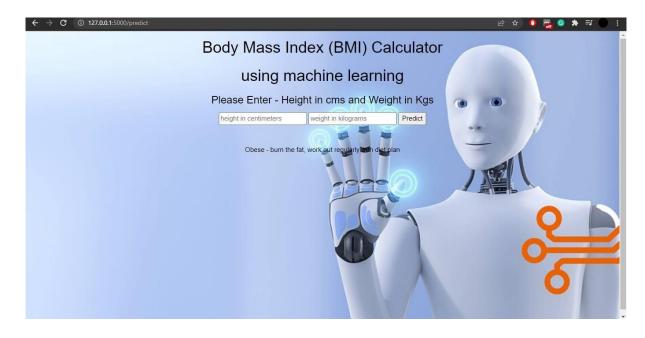
3. BMI Calculation using Machine learning model



Predictions by the model:

- 1. Extremely Weak Health is the first priority, focus on your diet
- 2. Weak Add some proteins and calories in your diet plan
- 3. Normal cool! you are healthy
- 4. Overweight reduce the intake of sugar and calories
- 5. Obese burn the fat, work out regularly with diet plan
- 6. Extremely Obese your health is your responsibility, consult a doctor



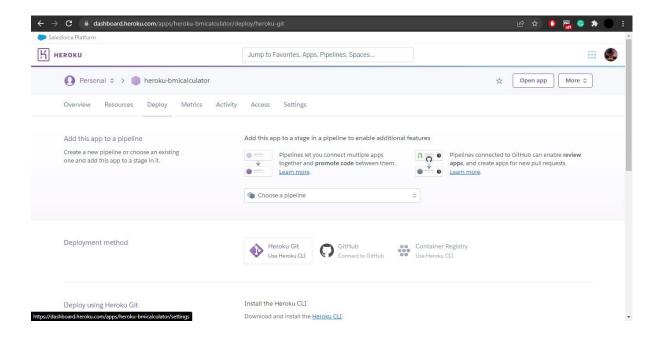


Extremely weak prediction

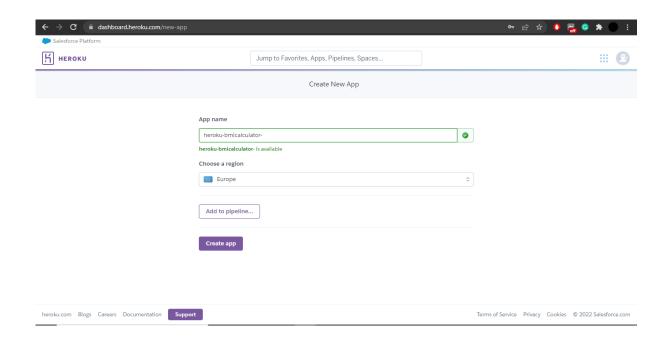


Deployment using Heroku app

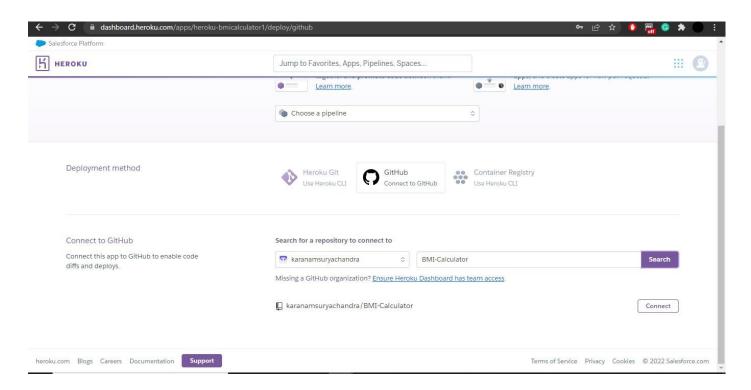
1. Heroku dashboard



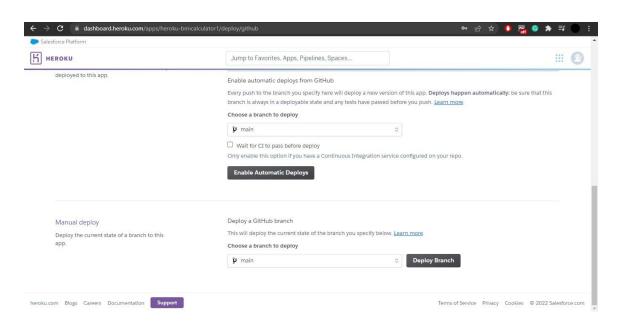
2. Create a new app with unique name



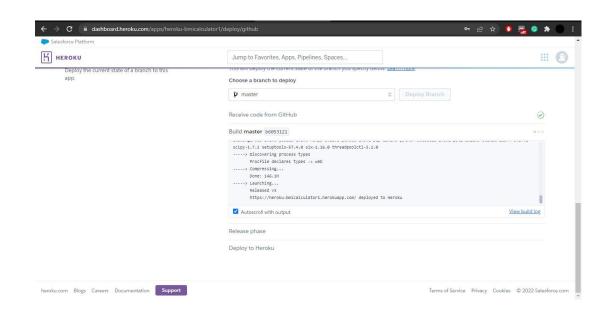
3. Connect the GitHub repository to Heroku



4. Choose the required branch to deploy and select manual deploy



5. If required, add requirements.txt file and import Heroku/ python library in the settings option. Select "Deploy Branch".



6. The ML model is deployed using Heroku and a sample of three outputs are given below.



