# Project Report (Heroku)

Name: 500\_Person\_Gender\_Height\_Weight\_Index

**Report date:** September 3, 2021 **Internship Batch:** LISUM02

Version: 1.0

**Project by:** Melisa Gözet **Data intake reviewer:** 

Data storage location: https://www.kaggle.com/yersever/500-person-gender-height-weight-

bodymassindex

**Project Location:** https://github.com/melisagozet/BMI\_Predict\_on\_Flask.git

#### **Context**

Body mass index is a value derived from the mass and height of a person. The BMI is defined as the body mass divided by the square of the body height, and is expressed in units of kg/m², resulting from mass in kilograms and height in metres.

#### **Content**

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

Gender: Male / Female

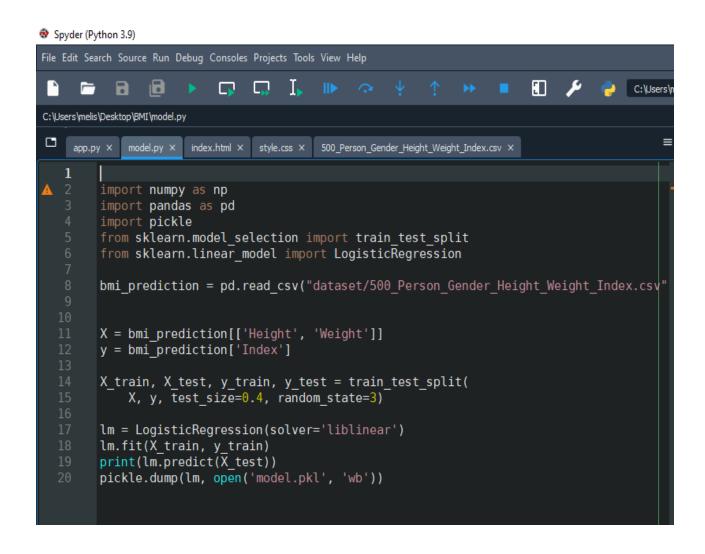
Height: Number (cm)

Weight: Number (Kg)

#### Index

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

1. Modeling the dataset "500\_Person\_Gender\_Height\_Weight\_Index.csv"



## 2. HTML codes (index.html)

Spyder (Python 3.8)

```
File Edit Search Source Run Debug Consoles Projects Tools View Help
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C:\Users\melis\Desktop\BMI\templates\index.html
app.py × style.css × model.py × index.html × 500_Person_Gender_Height_Weight_Index.csv ×
         <!DOCTYPE html>
        <!--From https://codepen.io/frytyler/pen/EGdtg-->
        <head>
           <meta charset="UTF-8">
          <title>Body Mass Index (BMI) Prediction</title>
          <link href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet' type='text/css'>
        <a href="https://fonts.googleapis.com/css?family=Arimo">link href="https://fonts.googleapis.com/css?family=Arimo">https://fonts.googleapis.com/css?family=Arimo</a> rel='stylesheet' type='text/css'>
<a href="https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300">link href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300</a> rel='stylesheet' type='text/css'>
        <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
         </head>
        <body>
              <hl> Body Mass Index (BMI) Prediction </hl>
               <h3> Please Enter Your Height and Weight</h3>
        <button type="submit" class="btn btn-primary btn-block btn-large">BMI Predict</button>
               </form>
            {{prediction_text}}
         </div>
        </body>
   33 </html>
```

## 3. app.py

Spyder (Python 3.8)

```
File Edit Search Source Run Debug Consoles Projects Tools View Help
                                                                          @
C:\Users\melis\Desktop\BMI\app.py
□ app.py × style.css × model.py × index.html × 500_Person_Gender_Height_Weight_Index.csv ×
           import numpy as np
from flask import Flask, request, render_template
import pickle
           app = Flask(__name__)
model = pickle.load(open('model.pkl', 'rb'))
           @app.route('/')
def home():
                return render_template('index.html')
           @app.route('/predict',methods=["POST"])
                For rendering results on HTML GUI
                int_features = [int(x) for x in request.form.values()]
final_features = [np.array(int_features)]
prediction = model.predict(final_features)
                if prediction == 0:
    output = "Extremely Weak. Please go to a doctor to check."
                elif prediction == 1:
                     output = "Weak"
                elif prediction == 2:
                     output = "Normal'
                elif prediction == 3:
                     output = "Overweight"
                elif prediction == 4:
                output = "Obesity. Please go to a doctor to check."
elif prediction == 5:
                output = "Extreme Obesity. Please go to a doctor to check."
return render_template("index.html", prediction_text = output)
                name == " main
```

# 4. Converting notebook to .py file and running python code

```
Microsoft Windows [Version 10.0.19043.1165]
(c) Microsoft Corporation. Tüm hakları saklıdır.

C:\Users\melis>cd desktop

C:\Users\melis\Desktop>cd BMI

C:\Users\melis\Desktop\BMI>python app.py

* Serving Flask app "app" (lazy loading)

* Environment: production

WARNING: This is a development server. Do not use it in a production deployment.

Use a production WSGI server instead.

* Debug mode: on

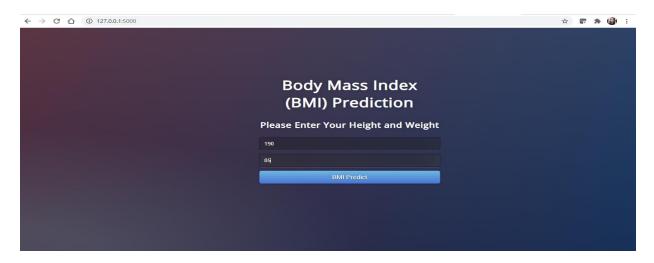
* Restarting with windowsapi reloader

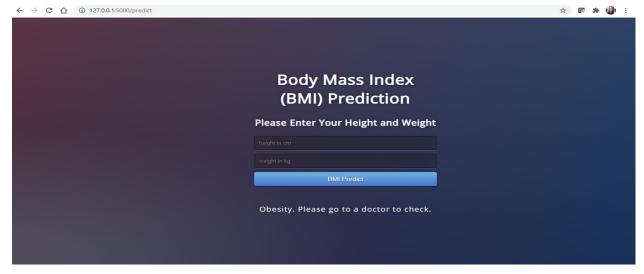
* Debugger is active!

* Debugger PIN: 280-934-384

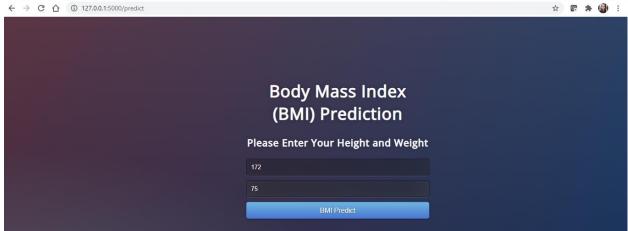
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

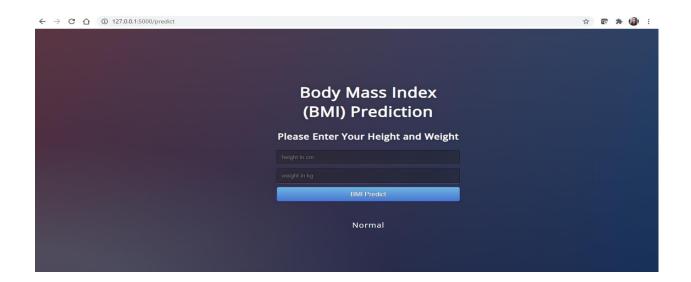
# 5. Examples of the model





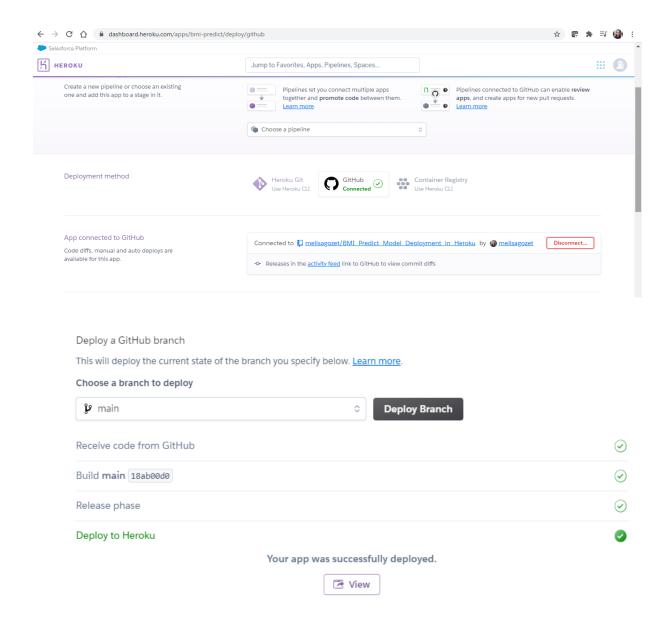






# 6. Heroku

# Connecting Heroku with my Github account



# 7. <a href="https://bmi-predict.herokuapp.com/">https://bmi-predict.herokuapp.com/</a>

