# The impact of daily diet and exercise on weight

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Official website is available here. Source code is available here.



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- Tools for develop model
- Results
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#### Introduction

- People emphasize their health and strengthen it by exercising at the gym, in the park, or even at home.
- We aim to establish a website to help them check whether their healthy is normal.
- Given their age, gender, height, weight, eating habits, activity level, goal, daily calories and after days.
- Displays result with suggestions and amounts of each nutrient in a histogram.

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# Tools for develop model

- Programming Language via CSS, HTML, JavaScript and Python.
- Data transmitting via Flask.
- Aesthetic via JavaScript.

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#### Results

#### Our anticipate

- Accurately calculate the actual results using BMR, TDEE, and so on.
- Provide a histogram to show the amounts of each nutrient.

### Our website anticipate

- Suggestion.
- A histogram displays each nutrient.

Suggestion: You have a normal weight. Keep up your current diet and exercise habits.

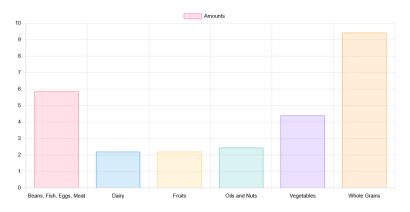


Figure I. Results of entering data.

Sedentary	Light	Moderate	Active	Very active
1.2	1.375	1.55	1.725	1.9

Table I. Consume calories from the exercise.

#### vspace1em

Vegetarian	Meat	Lacto ovo vegetarian	Balanced
1800	2500	2200	2000

Table II. Consume calories from the daily diet.

Male's BMR = 
$$(9.99 \times \text{weight}) + (6.25 \times \text{height})$$
  
-  $(4.92 \times \text{age}) + (166 \times \text{gender} - 161)$ 

Female's BMR = 
$$(9.99 \times \text{weight}) + (6.25 \times \text{height})$$
  
-  $(4.92 \times \text{age}) + (166 \times \text{gender} - 161)$ 

Each day =  $BMR \times Activity$ 

Calorie deficit = Intake - Calories per day

$$\mbox{Weight changes} = \frac{\mbox{Calorie deficit}}{7700}$$

 $Actual\ weight = Weight + Weight\ changes \times After\ days$ 

$$BMI = \frac{Weight}{Height^2}$$

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- Using precise tools to calculate the actual weight, ensuring that users receive accurate and reliable measurements for better health management.
- Providing accurate options for computation, allowing users to input various parameters and receive tailored recommendations based on their unique needs.
- We learned fundamental front-end and back-end development, including figure display using JavaScript and Python, to develop an application that seamlessly integrates user data and visualizes results effectively.

# Acknowledgment

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- Tzu-Chi Hsiao

Thank you for listening! We wish you a pleasant day.