## The impact of daily diet and exercise on weight

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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.

#### **Analysis Results**

Parameter  Actual Weight  TDEE					Value 53.19 kg 2186.13 kcal			
gestion: You	ı are underw	eight. Consid	ler increasing	your calc	orie intake	and doin	g strength	training.
		Amounts						
		Amounts						
		Amounts						
		Amounts						
		Amounts						
		Amounts						

Figure I. Results of entering data.

Whole Grains Reans, Fish, Eggs, Meat

Sedentary	Light	Moderate	Active	Very active
1.2	1.375	1.55	1.725	1.9

Table I. Consume calories from the exercise.

Vegetarian	Meat	Lacto ovo vegetarian	Balanced
1800	2500	2200	2000

Table II. Consume calories from the daily diet.

$$\begin{aligned} \text{Male's BMR} &= (9.99 \times \text{weight}) + (6.25 \times \text{height}) \\ &- (4.92 \times \text{age}) + 5 \end{aligned}$$

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

Calorie deficit = Daily calorie intake - TDEE

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

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

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

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