The impact of daily diet and exercise on weight

Ren-Song Ko, Wen-Shou Hsu, and Tzu-Chi Hsiao

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



Floor One, Innovation Building National Chung Cheng University, Chiayi county, Taiwan

Outline

- Introduction
- Tools for develop model
- Results
- Conclusion

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- Displays result with suggestions and amounts of each nutrient in a histogram.

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Our website anticipate

- Suggestion.
- A histogram displays each nutrient.

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

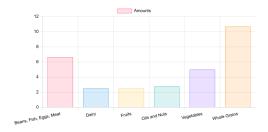


Figure I. Results of entering data.

Sedentary	Light	Moderate	Active	Very active
1.2	1.375	1.55	1.725	1.9

Table I. Consume calories from the exercise.

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Vegetarian	Meat	Lacto ovo vegetarian	Balanced
1800	2500	2200	2000

Table II. Consume calories from the daily diet.

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

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

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

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 Using precise tools to calculate the actual weight, ensuring that users receive accurate and reliable measurements for better health management.

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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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- Ren-Song Ko
- Wen-Shuo Hsu
- Tzu-Chi Hsiao

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