Carbon Footprint Calculator

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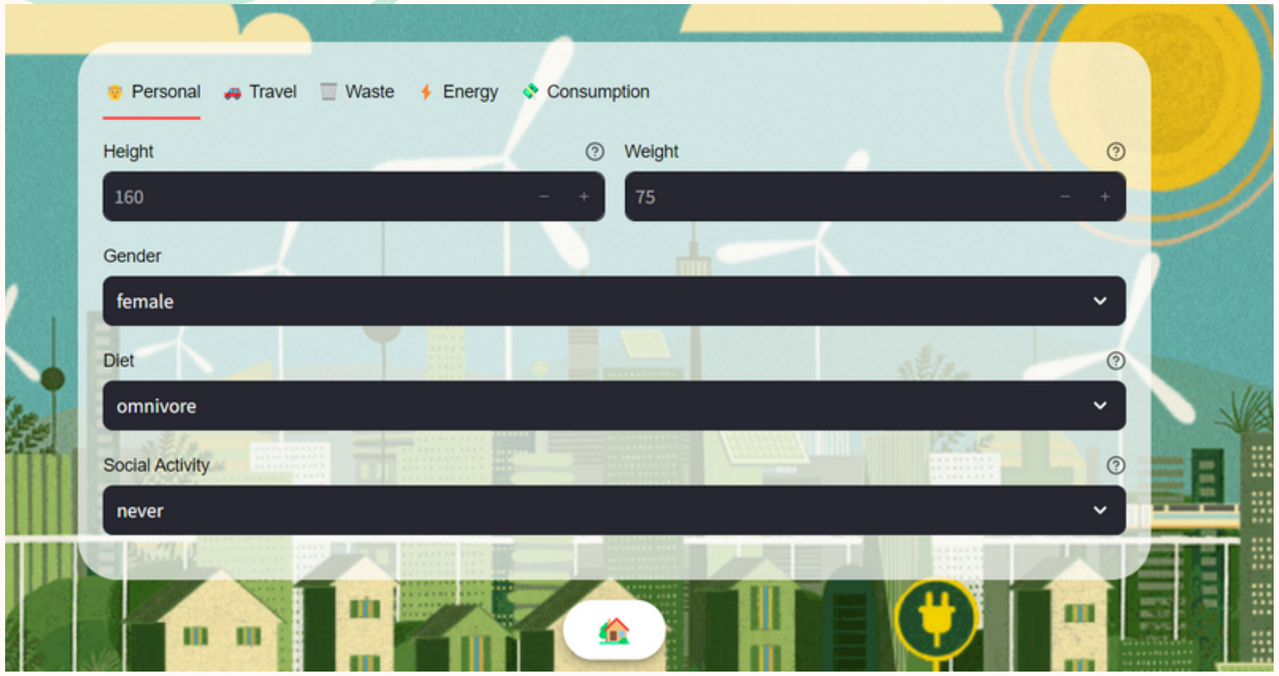
Carbon Footprint



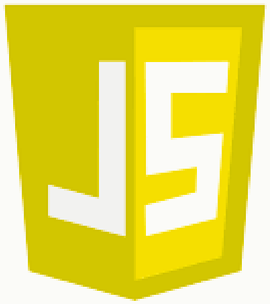
A carbon footprint measures the total greenhouse gas emissions linked to an individual, organization, event, or product. It's a crucial metric for gauging our impact on the environment and climate change.

Idea description

The AI-Powered Carbon Footprint Calculator is an innovative solution that combines the latest technologies, including HTML, CSS, JavaScript, Python, Streamlit, and AI/ML algorithms, to provide users with a comprehensive analysis of their carbon footprint. By leveraging machine learning techniques, this calculator offers personalized insights and actionable recommendations for reducing environmental impact.

Technology stack

Streamlit



USE CASES

- Environmental Awareness
- Personal Awareness
- Research Tool

Environmental Awareness:

- By providing users with a clear understanding of their carbon footprint, the website raises awareness about the environmental impact of their lifestyle choices.
- Managing India's carbon footprint is crucial for combating climate change while ensuring sustainable development for its vast population.

Personal Awareness:

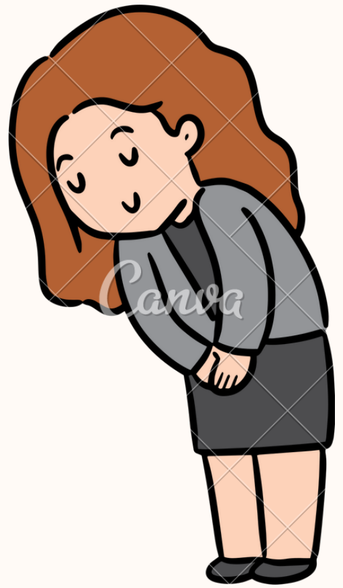
- Individuals can use the calculator to assess their personal carbon footprint, gaining insights into their environmental impact across various aspects of their lifestyle.

- Many environmental NGOs and sustainability-focused websites offer online calculators that allow us to input information about our daily activities and habits to generate an estimate of your carbon footprint.

Research Tool:

- Researchers and students can use the calculator to conduct studies on the environmental impact of different lifestyles, behaviours, and policy interventions.
- Research tools are required in every step of research. While collecting data, research tools are used to acquire data from different sources.

FUTURE SCOPE

- Machine Learning and AI
- Mobile Apps and Wearables
- Policy Support and Decision-Making

Thank you