

Carbon Footprint Calculator & Tracker

Introduction

Climate change is a major problem in today's world. Daily activities such as traveling, using electricity, eating food, and shopping produce carbon emissions. These emissions harm the environment and increase global warming. Many individuals and small businesses want to reduce their carbon footprint, but they do not know how much carbon they produce in their daily life. There are very few simple tools that help users understand and track their carbon emissions easily.

Problem Statement

Most people want to reduce their impact on the environment, but calculating carbon emissions manually is difficult and time-consuming. Users do not have a clear way to track carbon emissions from daily activities such as transportation, energy usage, and food consumption. Because of this, people are unable to understand which activities produce more carbon and how their carbon footprint changes over time.

Challenges

Carbon emissions are difficult to calculate manually. Daily activities like travel, electricity use, and diet are hard to track. Users do not know which activities produce more carbon emissions. Tracking emissions over days, weeks, and months is not easy. Users do not receive clear and personalized guidance to reduce emissions.

Proposed Solution

The Carbon Footprint Calculator & Tracker is a web-based application that helps users track and reduce their carbon emissions. Users can enter daily activities such as travel distance, electricity usage, and food habits. The system calculates carbon emissions using simple and standard formulas. The application displays the results using easy-to-understand charts and graphs. An AI-based recommendation system provides simple and personalized tips to help users reduce their carbon footprint.

Key Objectives

- To help users track daily carbon-emitting activities.
- To calculate carbon emissions using simple formulas.
- To show emission data using charts and graphs.
- To help users understand their carbon footprint patterns.
- To provide AI-based suggestions to reduce carbon emissions.

Expected Impact

This system helps users clearly understand how their daily activities affect the environment. It saves time by automatically calculating carbon emissions and presenting clear results. Users can make better decisions and adopt eco-friendly habits. The application also increases awareness about climate change and sustainable living.

Conclusion

The Carbon Footprint Calculator & Tracker provides a simple and effective way to measure and reduce carbon emissions. By combining activity tracking, emission calculation, visual dashboards, and AI-based recommendations, the system helps users take responsible steps towards protecting the environment and promoting sustainability.