Name of group and members

Name: CSCC

Members:

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Description of project and its goals

Transportation is one of the sectors that contributes the most to climate change. Use of personal vehicles as opposed to public transportation or biking, as well as car choice, cause increased greenhouse gas emissions and exasperate global warming. Toning down personal car use is an important step the average person can take against global warming.

We want to build a software system that, given your car model and information on how much you drive, gives you an estimate of your carbon emission due to personal vehicle usage and how much you should decrease your car usage based on a comparison with the average person's carbon emission due to car usage in the U.S.

The average value might still be too high for this purpose, but drivers who are above average decreasing their usage to the average value would still make a significant impact.

The data sources we plan to use

https://www.fueleconomy.gov/feg/ws/index.shtml#vehicle

Fuel Economy is a US government website that gives information about the greenhouse gas emissions of car models starting from 1984.

https://www.epa.gov/greenvehicles/fast-facts-transportation-greenhouse-gas-emissions

EPA is a federal website that gives information about greenhouse gas emissions in the US by sector (and car type within transportation) and year.

A list of the essential tasks

Date	Task
Feb 7	Write code to get the two data tables (id - car model & id - emission)
Feb 14	Write code to merge data tables
Feb 21	Write function that takes in model and use, and returns emission
Feb 28	Write function that compares emission with average and gives rec.
Mar 7	Translate the written code to user interface

Extras:

Feb 14-21	Autocomplete or any other way of standardizing car model inputs