

Midterm Project

Data Science I

For the midterm project we will be making a shiny app for our client Happy Valley Meat (HVM) Company. For this shiny app the customers of HVM will input the weight of meat and the cuts of meat that they are interested in comparing for purchase. The shiny app will output tables and plots to show the environmental impact of the weight of meat for each cut. The environmental impact report will include the water usage, co2 emissions, land usage, and number of animals required for that amount of each cut. The idea is to persuade customers to make choices with less environmental impact; instead of buying 100 pounds of hangar steak which requires 67 animals could they instead buy 100 pounds of tenderloin which would only require 10 animals? An example shiny app displaying the environmental impact can be found here: <https://www.happyvalleymeat.com/impact>. Details about the data and how to work with it can be found in Lecture 6.

Final product and submission: The code for the final shiny app will be submitted via github by one member of the team. In addition, please post the shiny app on shinyapps.io and submit the website for the posted shiny app and the github for the app via CANVAS.

Presentation: Each group will deliver an in-class 5 minute presentation of the shiny app. The presentation should clearly explain the purpose of the project, the data for the project, and showcase the features of the group's shiny app:

A rubric for the project can be found below:

	Points	Points Possible	Description
Oral Presentation		5	The oral presentation will be graded on the clarity of communication of the data, the purpose of the app and the features that your shiny app includes.
Visualization		10	Visualization of the data. How well is the data visualized in tables, graphs, etc.? How clearly is the data and purpose communicated through visualizations?
Code and deployment		5	How parsimonious and concise is your code? Is the code commented? Were you able to successfully deploy the app on shinyapps.io?
Layout		5	How is the shiny app user interface? Is it easy to understand and use?
Total		25	