Ermiyas Hialu

Cs 1030

Final project

#### **Step 4: Construct and publish presentations of the *process* and the *results of analysis*.**

Fisr of all I spent a lot of hours to find the best dataset on investigation but finally I decided to work with the cheapest electric car in 2023. And really give a good data set also I am interested in that data set. The data set has a lot of information by the columns like the name of the car, model, battery capacity, top speed, acceleration, efficiency, and etc. I am interested in working on electric vehicles, so I decided to get specific data to make a good topic: Cheapest Electric Cars 2023. Yes, that is my appropriate data. Then I Formulated one or more questions to be investigated via data analysis. When I looked at my dataset from my speed sheet I had 4 questions to investigate the data then I decided to choose only 2 questions for my investigation on this data analysis. Here is my basic questions :

1. Do electric vehicles with larger battery capacities tend to have quicker acceleration?

Why am I asking this question? By examining whether there is a correlation or causal relationship between battery capacity and acceleration, we can gain insights into the design and engineering of electric vehicles. If a positive relationship is found, it could indicate that larger battery capacities provide more power to the electric motors, resulting in quicker acceleration. This question helps to advance our understanding of the relationship between battery capacity and acceleration in electric vehicles, contributing to the ongoing development and improvement of electric vehicle technology.

And here my analysis for that questions

1. When I looked at the database analysis for my spreadsheet I tried to see how large battery capacity has a tendency relation to acceleration. There is no not too much relation between the larger battery and acceleration.

between battery capacity and acceleration in electric vehicles is not a direct or deterministic one. While larger battery capacities can potentially provide more power to electric motors, there are several other factors that influence acceleration in electric vehicles, such as motor efficiency, weight, drivetrain design, and torque characteristics.

Sources: To conduct the analysis on whether the cheapest electric car 2023 a variety of sources can be utilized. These may include my database on my spreadsheet from when I download kaggle. Examples of relevant sources include “car and driver”.

So my Downloading and formatting just use a comma- separated value ( CSV) from my kaggle account. Then my Analytical tools: While this topic may not require extensive data analysis, so I can use basic analytical tools such as spreadsheets like excel then i used that. The next one is my documentation tool. Google docs are good and simple to use. Then I am going to upload with my github pages.