Self-Assessment

*Overview*

For our project, our primary focus points were to analyze the main causes of CO2 emissions, and whether the introduction of EVs would have a positive impact on CO2 emissions and other environmental indexes such as Air Quality, Greenhouse Gas Emissions, etc.

*Process*

The way we worked was we divided our work according to the strengths of each person, and we all each week took turns doubling up to make up for us being a group of 5 people. However, mainly Tarini built the machine learning model, Ruchita managed the entire GitHub repository, Mikhail and I worked on the Database, Kobe worked with Ruchita for the GitHub repository and creating the final presentation, and I created the visualization tools on Tableau. With Tableau I basically inserted our csv static file and created visualizations from the data. Apart from my contribution to Tableau, I also was involved with Mikhail in creating queries on PGAdmin, however did not participate in the process of deploying the database to AWS S3. Other than being the person involved with Visualization and Database manipulation and management, I was also playing the role of the group administrator/project manager, by setting up calls for us to meet and coordinate on our efforts outside of the class working hours.

*Results*

As a result of our hard work, I believe, we were able to finish a fine project and make a very small contribution by educating the class about a global environmental catastrophe brewing due to our irresponsible treatment of the earth and whether the popular trend of EVs was actually helping or not. In our analysis we received inconclusive results over EV sales and environmental indexes improving, however, we were able to gather evidence and analyze the various causes of CO2 emissions.

*Roadblocks*

In my opinion, the only roadblock we faced here was time management. The nature of everyone’s work schedules and personal lives was coming in the way of being productive around the second segment of the project. However, we were quickly able to step up and make up for lost time, due to the willingness of each group member to go above and beyond and not give up without a fight.

*Skills Learned*

I believe it’s important to highlight that the entire Bootcamp has been a learning experience. Certain things I knew before coming in, and certain things I picked up on along the way and I also enhanced my knowledge of things I already knew through the bootcamp. Here are skills I learned specifically during this project:

* GitHub Repo Management
* Machine Learning Modelling
* Database Deployment to S3
* Improved Time Management skills
* Cross Functional Collaboration

*Conclusion*

Finally, I believe I have truly learned the value of time and excellent data. Without effective time management nothing can be done, and without excellent data, an analysis cannot be excellent, and thus becomes a good or bad analysis. Using sources that are credible and reliable, will create excellent databases, that will result in a highly effective machine learning model, that will result in very good visuals. This entire process also must be executed well to ensure that the entire project maintains its quality of its final deliverable.